

PROFILE

a guide to military careers



Basic Facts Edition

January 1989



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To the reader:

The changing of duty positions and geographic locations is a natural occurrence for active duty military personnel.

The staff of PROFILE is no exception.

Although their names still appear on the articles they worked hard to create, two of the staff writers have departed for other parts of the world. Our former deputy director has also been reassigned within the Department of the Army. However, the staff also gained one new staff writer and a new deputy director. We wish to welcome the newcomers, and thank the departing members for a job well done. The staff also thanks you, the reader, for the comments and suggestions you've provided during the past year concerning PROFILE.

Our January Basic Facts Edition is organized as a quick reference guide to various aspects of the military services. This issue is as accurate as possible within the limits of normal changes. However, because programs are constantly added, deleted, and changed, any questions not answered by our brief descriptions should be addressed to the appropriate service representative.

We recommend the Basic Facts Edition be displayed or otherwise made available to students and educators for a continuing reference. Although we are unable to provide sufficient copies for individual retention by guidance personnel or students, we do offer blanket permission to reproduce any, or all, of PROFILE for further distribution.

THE STAFF

Profile

a guide to military careers
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General Section

Enlistments

Enlistment programs vary greatly between the five services.* Each service has recruiters who determine the eligibility of applicants for specific training and assignments.

After preliminary processing by local recruiters, applicants are sent, at government expense, to a Military Entrance Processing Station (MEPS) to take the Armed Services Vocational Aptitude Battery (ASVAB), and to undergo a physical examination. Results of the ASVAB test and physical exams are used to determine which training programs applicants are qualified to enter.

ASVAB tests are often administered at high schools during the applicant's junior and senior years. High school guidance counselors can provide more information about taking these tests locally.

Potential applicants must possess a birth certificate and Social Security card or other proof of citizenship and date of birth. Applicants born overseas of American parentage are required to provide proof of citizenship. Aliens must provide proof of lawful entry for permanent residence. Applicants between 17 and 18 years old must have parental or guardian consent before entering the service.

A high school diploma, although not a requirement (except for women entering the Army and Marine Corps), is both recommended and preferred for future enlistees.

***The Coast Guard is administered under the Department of Transportation. During war or other national emergencies, the Coast Guard becomes part of the Department of Defense as a component of the Department of the Navy. It is one of the five armed forces and the same rules and regulations apply in most instances.**

Basic training

Basic or recruit training is the process by which young men and women gain the fundamental knowledge, physical conditioning and skills necessary to become productive military members. Whenever possible, trainees are sent to the training base nearest their home or place of enlistment. The exceptions are

the Air Force and Coast Guard. Each has only one training center; however, the governing consideration is the location of the school or training center providing instruction in the skill in which they will be trained.

ORGANIZATION: Recruits train in groups of 35 to 80 people, instructed by enlisted personnel. These groups are called companies in the Navy and Coast Guard, flights in the Air Force and platoons in the Army and Marine Corps. Selected recruits are appointed to leadership positions within their units and perform under the supervision of instructors.

CLASSROOM/FIELD TRAINING: Classes are conducted on military regulations; the handling and care of weapons; rules of conduct; military courtesies; drill and ceremonies; military justice; personal services; hygiene and sanitation; military insignia; organization and mission; first aid and marksmanship. Other subjects related to specific services, such as tactics in the Army and Marine Corps, and seamanship in the Navy and Coast Guard, are also taught during basic training. Classroom work is mixed with field training and practical experience.

PHYSICAL TRAINING: Physical fitness and stamina are developed and maintained through daily exercises, competitive sports and cross-country marches. Tests are used to measure the degree of physical fitness each trainee has attained.

SPECIAL TESTS: Recruits (except Army) are given additional aptitude and classification tests and are interviewed by counselors during training.

PAY: During basic training, recruits are usually in pay grade E-1, unless they have qualified for a higher grade at the time of enlistment. Promotions after this rank follow standards of length of service and achievement. Based on current pay scales, a typical trainee would earn (in base pay and allowances) about \$671 a month, if single, and about \$930 per month, if married.

DAILY SCHEDULE: A rigorous routine is maintained for classes, meals, athletics, and field training. Depending on the program, most days begin at 5:30 a.m. and end around 9:30 p.m. Saturdays and Sundays are usually lighter in schedule.

Little free time is available during training. Trainees may receive visitors at certain times and attend religious services. Time to travel away from the unit is limited. In most cases, leave (vacation) is not



authorized until advanced training is completed following basic training.

Assignments

The types of duty and the areas where military members are assigned (overseas and within the continental United States) depend on the missions and needs of the service, personal qualifications and desires. There are specific requirements for most types of duty, such as rank or rating, specialty training, time left on current enlistment, past record of conduct, performance of duty and eligibility for reassignment.

The length of time served overseas is determined by the type and location of duty, and whether family members accompany the service member. Tours of duty range from one to four years. A large percentage of Army and Navy enlistees is assigned overseas for their first tour of duty.

Uniforms

International law requires that military personnel wear uniforms to distinguish them from civilians.

Each service decides on the style and appearance of its members' uniforms.

After initial issue, enlisted personnel must maintain and replace uniform items from a provided annual clothing allowance. Officers receive an initial clothing allowance to purchase uniforms or are issued certain clothing items while enrolled in some pre-commissioning programs.

There are three basic types of uniforms: field/utility for manual work; service for everyday wear; and dress for formal wear. There are several variations within each type.

Personnel are required to wear appropriate uniforms while on duty. As a general rule, civilian clothing may be worn during off duty time.

Pay and allowances

Active duty basic pay is the amount paid an individual based on rank or grade and length of service. In addition to basic pay, special pay such as flight duty, sea duty, hazardous duty, etc., is generally awarded to individuals serving under special or unusual conditions.

Allowances are the non-taxable sums authorized for

subsistence (food), quarters (housing), clothing, travel and transportation which help service men and women meet some of the expenses incurred as a result of military service.

Subsistence allowances are paid monthly at a set rate to officers, regardless of pay grade or marital status. Enlisted personnel may receive this allowance depending upon the availability of military dining facilities and marital status.

The basic allowance for quarters (BAQ) is paid to officers and enlisted personnel with eligible family members when government quarters are not available. Single officers and enlisted personnel also receive BAQ under certain conditions.

Additional housing and cost of living allowances are given to service members stationed in some high cost stateside and overseas areas. Amounts vary depending upon location.

Clothing allowances are paid to enlisted members for replacement and upkeep of military clothing.

Travel and transportation allowances are paid to all service members when assigned a new station or serving temporary duty away from their permanent duty station. All married service members are entitled to allowances for household goods shipment and travel of accompanying family members in the continental United States.

Enlistment bonuses of up to \$8,000 may be awarded on a limited basis to qualified people enlisting for certain skills for specific periods of time. Reenlistment bonuses of up to \$30,000 may be paid to enlisted members who complete their enlistment and choose to reenlist.

Retirement pay and disability benefits are other forms of military pay and compensation allowances.

Leave

Service members, regardless of rank or length of service, earn 30 days of leave (vacation) with pay each year. Leave is accrued at the rate of two and one-half days per month. During initial training periods, leaves are granted only for emergencies verified by the American Red Cross.

Commissioning programs

Commissioned officers are obtained from several training sources—in the Federal Service Academies (Air Force, U.S. Military, Naval and Coast Guard), and the Officer Candidate, Aviation Officer Candidate, Reserve Officers' Training Corps and Marine Platoon Leaders' Class programs.

Service academies

All service academies offer four years of college education leading to a bachelor of science degree. Cadets and midshipmen receive tuition, medical care,

Insurance

Anyone entering active duty for 31 days or more is automatically insured for \$50,000 at a premium of \$4 per month under the Serviceman's Group Life Insurance Program.

Education opportunities

The armed forces encourage their members to further their education while on active duty. Each branch has numerous programs to help defray the high costs of an advanced education. See service sections for details.

Veterans assistance

Veterans who serve on active duty for at least 181 consecutive days may become eligible to receive certain VA benefits while on active duty. Members meeting the above time in service requirements who are discharged under honorable or general conditions, and members who are discharged with fewer than 181 days of continuous active duty due to a service connected disability, may also be eligible for benefits.

Under the new Montgomery GI Bill, which began as of July 1, 1985, service members may receive a basic benefit of up to \$300 a month for 36 months of approved education, to a total of \$10,800. To enter the program, service members must elect to have their pay reduced \$100 a month for the first 12 months of their enlistment and serve not less than 20 months of active duty to qualify for benefits. (Members contributing to the Montgomery GI Bill will have 10 years from their date of discharge to use their benefits.)

There are several bills before the Congress which may change these benefits in the future. The nearest VA office can provide information on these changes if the bills are enacted into law.

In addition to the Montgomery GI Bill, each service has educational benefits which are discussed in the services sections.

room and board, and approximately \$485 a month which pays for uniforms, books, and incidental expenses. Upon graduation, commissionees are obligated for an active duty period of at least five years.

Eligibility

Admission to any of the academies requires that the applicant be at least 17 years of age (but not have passed the 22nd birthday by July 1 of the year of entrance), a citizen of the United States, of good moral character and able to meet academic, physical and medical requirements. Applicants must not be mar-

ried or have the legal obligation to support dependents, including their parents.

The overall academic and physical preparation of a candidate is of vital importance to success at any of the academies. In high school, the student should strive for above average grades and participate in athletic programs, clubs and extracurricular activities.

An applicant's academic qualification for admission is determined by results on the standard College Board Admissions Testing Program's Scholastic Aptitude Test (SAT) or the American College Testing (ACT) programs, plus a review of scholastic records.

Applications for the SAT and ACT should be made at least 30 days in advance of the testing dates.

All medical examinations are scheduled by the Department of Defense Medical Examination Review Board, Colorado Springs, Colo. 80840-5151. Applicants are scheduled for a medical examination following evaluation of academic qualifications.

Nominations

Applicants for the U.S. Air Force, U.S. Military and U.S. Naval academies must have a nomination in order to be considered for appointment. It is best to apply for all nominations for which one is eligible. However, no nomination or appointments are needed for the U.S. Coast Guard Academy. Selections are made by the Academy directly, based on scholastic aptitude and nationwide competition. Prospective applicants should request a pre-candidate questionnaire from the service academy at the time they apply for their nomination. This will initiate an admissions file.

Most applicants receive nominations from members of the U.S. Congress, however, other sources of nominations are available through affiliation with the armed forces. The types of nominations applicants may apply for include:

Congressional: These nominations are available to anyone who meets the basic eligibility requirements. Applicants may apply to the representative and senators from their legal home of record. It is not necessary to know the congressional member personally. Each congressional member and the vice president may have five constituents in attendance at each of the academies at any one time and may nominate as many as 10 applicants for each vacancy. The spring of the high school junior year is the suggested time to apply for congressional nominations, though some members of Congress will accept late requests for nominations in November or early December of the senior year.

Presidential: This nomination is available to children of career members of the military services, regular or reserve, if the parent is on active duty and has served continuously for at least eight years; or retired from active duty; or a deceased retired veteran. By law, a person eligible under the CODDV category (see below) may not be a candidate under the presidential category.

Regular and Reserve Unit: Nominations are allowed for enlisted men and women in regular and

reserve units of the Air Force, Army, Marine Corps and Navy. Enlisted personnel may apply only for the service academy of their respective military component in this nominating category, although they may apply to the other service academies in other categories. People serving in any service may apply for the Coast Guard Academy.

Children of Deceased or Disabled Veterans (CODDV): This category is for children of deceased or 100 percent disabled veterans whose death or disability was determined to be service-connected, and for children of military personnel or federally employed civilians who are in a missing or captured status. Applicants holding a nomination under this category are not eligible for nomination under the presidential category.

Honor Military/Naval School: This category includes distinguished graduates from these sources.

Administrator, Panama Canal Commission: Residency is required.

Delegates to Congress from American Samoa, Guam and the Virgin Islands: Residency is required.

Delegates to Congress from the District of Columbia: Residency is required.

Governor and Resident Commissioner of Puerto Rico: Residency is required.

ROTC: Students from junior and senior ROTC units may request nominations through their school detachments.

Note: A separate appointment category is open to the children of Medal of Honor recipients. They are appointed to the academy of their choice without regard to vacancies, provided they meet minimum qualifying standards.

Appointments to the Coast Guard Academy are made competitively on a nationwide basis. A nomination is not required. Qualified men and women may apply by writing to the Director of Admissions, U.S. Coast Guard Academy, New London, Conn. 06320.

Preparatory schools

The primary purpose of all preparatory (prep) schools is to strengthen a student's background in mathematics, English and science as a foundation for possible entrance into one of the service academies.

The majority of individuals admitted to the academies enters immediately following high school graduation. Prospective candidates who feel that they require additional post-high school preparation, or who are unable to obtain an appointment the first time, are encouraged to attend a preparatory school or college in the interim.

Four prep schools (Air Force, Army, Navy and Coast Guard) have 10-month courses which begin in July and end in May of each year. Graduates selected to attend a service academy have a summer break of approximately six weeks before reporting to an academy. Attendance at academy prep schools in no way guarantees acceptance to the service academies.

Medical programs

Financial assistance is available to students in certain medical programs, in return for specified periods of military service. In addition to the programs outlined below, the Air Force, Army and Navy offer a selection of internship and in-service education leading to advanced professional standing for individuals already qualified as registered nurses, dieticians, medical technologists and psychologists. All programs involve service as a commissioned officer with pay and allowances commensurate with education and professional standing in the field of specialization.

Armed Forces Health Professional Scholarship Program

A total of 5,000 scholarships are available for award to eligible persons attending accredited medical schools in the United States or Puerto Rico. Recipients receive payment of full tuition, most academic expenses and a monthly stipend. Additionally, recipients receive the full pay and allowances of a second lieutenant/ensign during their annual active duty training period of up to 45 days. The amount of the monthly stipend is adjusted annually to reflect cost of living increases. The service obligation is year for year, with a minimum obligation of three years. For more information and a program fact sheet, contact the Assistant Secretary of Defense (Health Affairs), The Pentagon, Washington, D.C. 20301.

Uniformed Services University of Health Sciences

Civilians and military personnel having a baccalaureate degree may apply for a four-year comprehensive medical program, which includes clinical experience at major medical facilities from each of the services. Course prerequisites are one full year (two semesters or three quarters) of each of the following: English, general chemistry, organic chemistry, physics, general biology and mathematics, plus acceptable Medical College Admissions Test scores. Applicants must be U.S. citizens, not older than 28 as of June 30 in the year they begin the program, and meet the physical and personal qualifications for a commission. Tuition is free. Graduates must serve seven years in one of the armed services or the Public Health Service. Application can be made through the Director of Admissions, Uniformed Services University of Health Sciences, 4301 Jones Bridge Rd., National Naval Medical Center, Bethesda, Md. 20014.

Reserve Officers' Training Corps

The Reserve Officers' Training Corps (ROTC) program is composed of nearly 500 Air Force, Army and Navy units at public and private colleges and universities nationwide. The training (elective in most institutions) consists of two to five hours of military instruction per week and some summer training periods.

Advanced ROTC training, during the junior and senior college years, is optional. Students must qualify for admission to the advanced course.

ROTC graduates fulfill their military obligations (a total of eight years) by serving on active duty as regular or reserve officers from three months to eight years, or by serving in the National Guard or Reserve for six to eight years. The remainder of the eight-year obligation, if not served on active duty, will be served in the Ready Reserve.

The various ROTC programs are outlined in each service's section.

Candidate schools

College graduates can earn commissions in the Air Force, Army, Marine Corps, Navy and Coast Guard without prior ROTC or other military training through officer training or officer candidate schools. See the service sections for details.

Direct appointments

Direct appointments are available to individuals who are professionally qualified doctors, nurses, lawyers, chaplains and civil engineers.

Military lawyers must be graduates of a law school accredited by the American Bar Association (ABA) and have been admitted to practice law by the highest court of a state or by a federal court. Coast Guard applicants who have not passed the bar will be considered for two year contracts. Selections are competitive and the number of selectees is determined by the needs of each service. An active duty obligation of at least two years is incurred upon commissioning. Coast Guard selectees who have passed the bar incur a four-year active duty obligation. Lawyers usually enter active duty as lieutenants (O-2), unless qualified for a higher rank. Coast Guard applicants are commissioned at the O-3 lieutenant level only. Under the Navy's Judge Advocate Corps Student Program, a law student accepted or enrolled in any year of an ABA-accredited law school, may participate as an ensign in the inactive Naval Reserve.

Military chaplains must possess 120 semester hours of undergraduate credits (or the equivalent) from a college or university that is listed in the Education Directory--Colleges and Universities, or have completed 120 semester hours of credit (or the equivalent)

from a school not listed in the Education Directory, but from which credits could be transferred to a school listed in the directory. They must also possess a Master of Divinity (or equivalent theological degree), or have completed three resident years of graduate-level study in theology or related subjects that lead to ordination and ecclesiastical endorsement, which qualify the applicant to perform professional functions as a chaplain. The applicant must complete professional educational work at a graduate school that is a member of the American Association of Theological Schools.

A person may apply for appointment as a second lieutenant/ensign in the Chaplain Candidate Program if he or she possesses 120 semester hours from a college or university listed in the Education Directory--Colleges and Universities and is a full-time resident student, or has been accepted for the next entering class at a theological school that meets the above requirements.

Applicants for the Chaplain Candidate Program and all components of the chaplaincy must receive ec-

clesiastical approval/endorsement from an Ecclesiastical Endorsing Agency that is recognized by the Armed Forces Chaplains Board.

The Coast Guard offers direct appointments to selected lawyers, licensed officers of the Merchant Marine, Maritime Academy graduates, military aviators, former military flight officers, physician's assistants, inactive reserve officers and civil engineers. Contact the Commandant (G-PRJ-1), U.S. Coast Guard, Washington, D.C. 20593, (202) 267-1730, for details.

Navy Civil Engineer Corps officers must be graduates of a college or university accredited by the Accreditation Board for Engineering and Technology or an architecture degree program accredited by the National Architectural Accrediting Board. They have a four-year active duty obligation upon completion of the Navy's Officer Candidate School in Newport, R.I.

Direct appointments in medical and health science fields are available in the Army, Navy, and Air Force. In addition, education programs are outlined in the following section.

Reserve and National Guard programs

The reserve components are made up of Air Force, Army, Marine Corps, Navy and Coast Guard Reserve units and the National Guard (Air and Army). "Ready Reserves" describes units or individuals immediately available for active duty in a national emergency declared by the president, or when otherwise provided for by law. Application can be made to any local selected reserve unit, including the Army or Air National Guard. All reserve programs require enlistees to serve some time on active duty for training. Normally, most of this period is spent in basic training and basic technical schooling, or on-the-job training in a military occupational specialty. Upon completion of training, reservists return to the local units for which they enlisted to serve the terms of their enlistments.

RESERVE UNIT TRAINING: Reservists are required to regularly attend training assemblies in evening or weekend sessions throughout the year. An annual training period of 12 to 17 days is normally scheduled during summer months. Active duty for training of Naval Reservists is scheduled throughout the year.

PAY: National Guard and Reserve pay is based on a pay scale according to grade, length of service and the number of days allotted for each training period. Members receive one day's pay for each training assembly performed. A normal weekend drill is considered as four assemblies and entitles guardsmen and reservists to four days of basic pay.

MILITARY OCCUPATIONS: Reserve enlistees are accepted to fill military job vacancies in the particular unit they join based on education, aptitude, civilian experience and personal preferences. Skill qualification training is provided during the reserv-

ist's initial tour of active duty; attendance at regular service schools, unit on-the-job training or correspondence courses round out training. Military jobs may parallel civilian occupations, thus helping progression in civilian employment.

ADVANCEMENT: Reserve branches have promotion systems separate from those of the regular services. Reservists compete only with other reservists of their service or unit for promotion.

EDUCATION BENEFITS: The reserves offer educational benefits for non-prior service, prior service and active reserve officers and enlisted personnel.

In most instances, applicants for the National Guard must hold a high school diploma or equivalent, although non-high school graduates may be enlisted in some cases in the Army National Guard. Non-prior service personnel who enlisted for six years after July 1, 1985, are eligible for Montgomery GI Bill for the Selected Reserve with benefits up to \$5,040. Participants must complete initial active duty for training and complete 180 days in the Selected Reserve, and may not already hold a baccalaureate degree. Prior service and Reserve officers and enlisted must extend their service time by six years during this period to qualify for the Montgomery GI Bill for the Selected Reserve benefits. Funds are offered for extended, though not necessarily consecutive, periods up to 36 months. Full-time students normally receive \$140 a month; three-quarter-time students, \$105 a month; and half-time students, \$70 a month.

These benefits may vary slightly with each service, or according to the participating member's status. More information is available from local Veterans Administration offices.

Commissioning programs

Air Force Academy

The Air Force Academy near Colorado Springs, Colo., offers a four-year program to qualified, selected high school graduates throughout the country. Students who want to attend should begin their enrollment process during the spring semester of their junior year by writing to: USAFA/RRS, U.S. Air Force Academy, Colo. 80840-5651, and ask for a pre-candidate questionnaire kit. (See the general section at the front of this magazine for details on entering the academy and how to receive a nomination.)

Air Force Academy Preparatory School

The Air Force Academy Preparatory School is located on the academy grounds, approximately five miles south of the main cadet area. The Preparatory School gives eligible Air Force enlisted men and women and selected applicants who were not offered Academy appointments the opportunity to improve their whole-person score before reapplying. Students must be at least 17 and not yet 21 years old as of July 1 of the year they enter the Preparatory School.

The Preparatory School's curriculum is divided into five areas: English, math, science, military training and athletics. This preparation enhances the chances of receiving an appointment to the academy the following year. However, completion of the Preparatory School program does not guarantee a candidate's acceptance into the Air Force Academy.

Candidates for the Preparatory School are automatically selected from among those individuals who applied to the Air Force Academy but did not

receive appointments (candidates should not make any further application to the Preparatory School). Candidates selected are those whose records indicate outstanding potential for the academy, but who need additional academic preparation to improve their chances for admission.

Two nonprofit agencies, the Falcon Foundation and the General Henry H. Arnold Educational Fund, provide educational assistance programs to enable deserving candidates to better qualify for admission to the Air Force Academy.

The Falcon Foundation awards scholarships to highly motivated and qualified civilian preparatory schools and junior colleges in various parts of the nation. Requests for information or applications should be sent to: The Falcon Foundation, 5450 Tech Center Drive, Suite 405, Colorado Springs, Colo. 80919.

The General Henry H. Arnold Educational Fund provides educational assistance to children of Air Force personnel. Applicants may make their own choice of an accredited preparatory school or college. Request application blanks from: Director, Air Force Aid Society, National Headquarters, Washington, D.C. 20333.

Officer Training School

Through Officer Training School (OTS), the Air Force and the Air Force Reserve train selected college graduates to become commissioned officers. Potential pilots or navigators go directly to flight training after completing OTS. Applicants must be U.S. citizens and graduates of an accredited college.

Trainees must complete a 12-week course (15 weeks for pilot candidates who do not possess a private pilot license) and receive pay and allowances for the grade of staff sergeant (E-5) during training. Those who hold an active or reserve grade higher than staff sergeant attend OTS in the higher grade. Upon successful completion, officers are commissioned as second lieutenants.

Trainees must be commissioned before reaching age 30, if applying for non-flying duty. Waivers for individuals qualifying as "outstanding and deserving" may be granted for the maximum age restriction to extend commissioning eligibility to age 35. If applying for flight training, individuals must be commissioned and enter undergraduate flying training before reaching age 27½. Active duty obligation is four years from the date of graduation for non-fliers, eight years from graduation from flight training for pilots and five years for navigators. For additional information, write AFMPC/DPMAPP2, Randolph Air Force Base, Texas 78150-6001 or call toll free 1-800-531-5809. In California, call 1-800-292-5355.

Reserve Officers' Training Corps

The Air Force Reserve Officers' Training Corps (ROTC) is an educational program designed to provide college students an opportunity to become Air Force officers while completing their bachelor's degree programs.

Air Force ROTC offers two routes to an Air Force commission—the Air Force ROTC Four-Year Program and Two-Year Program.

Four-Year Program

The General Military Course (GMC) is the first half of the Four-Year Program and is taken during the freshman and sophomore years. This program allows students to "try out" Air Force ROTC for one to four semesters without incurring an obligation unless on an Air Force ROTC scholarship. While attending classes, students learn more about the Air Force and the historical development of airpower.

Entrance into the last half of the Four-Year Program, called the Professional Officer Course (POC), is competitive. These junior and senior level courses cover leadership skills and national defense policy.

Two-Year Program

This program, also called the Professional Officer Course (POC), is open to qualified students entering their junior year, especially those majoring in selected scientific and technical areas such as mathematics, meteorology, engineering and computer science. It is also open to junior college transfer students and veterans who have at least four semesters remaining (undergraduate or a combination of the two) before entering the ROTC program.

Because entrance into the POC program is competitive, it is important to apply during the second quarter of the sophomore year. Students applying to enter the Two-Year Program attend a six-week summer Field Training before entering. During the Professional Officer Course or while on scholarship, ROTC cadets receive a \$100 non-taxable monthly allowance.

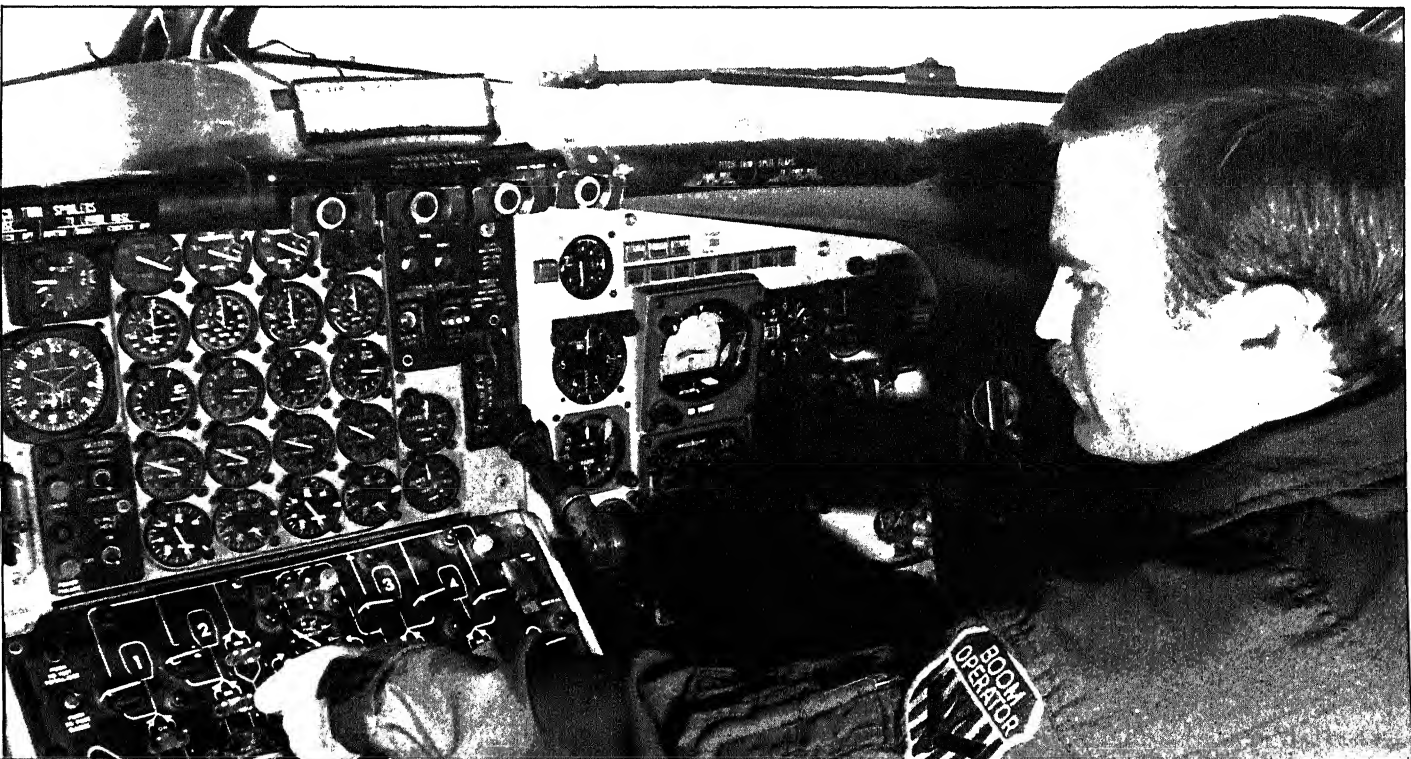
As an Air Force ROTC cadet, students spend one class period each week putting into practice the leadership skills and management theory acquired during class. Leadership Laboratory is a cadet-centered program designed to improve the cadets' performance as Air Force officers.

To qualify for the POC, students must be U.S. citizens, be full-time students at schools offering Air Force ROTC, be at least age 17 with parent/legal guardian consent and be physically qualified. Potential cadets must be of good moral character and be in good academic standing with two academic years remaining. Additionally, they must successfully pass the Air Force Officer Qualifying Test and be interviewed and selected by a board of Air Force officers. Selectees then complete a six-week Field Training course if a two-year cadet; a four-week course if a four-year cadet.

ROTC cadets must complete all graduation and commissioning requirements as follows: pilot/navigator candidate—before age 26½ (27½ with waiver); scholarship recipient—before age 25 as of June 30 in the eligible year of commissioning; non-scholarship recipient—before age 30 (35 with waiver).

Air Force ROTC scholarships

Air Force ROTC offers four-year scholarships on a competitive basis to high school seniors or graduates who want to major in selected scientific and technical areas such as engineering, mathematics, meteorology





and computer science, as well as some non-technical areas. Scholarship information and applications can be obtained from high school guidance counselors, an Air Force ROTC officer at a campus offering Air Force ROTC, an Air Force recruiter, an Air Force Academy liaison officer or by writing to AFROTC/RROO, Maxwell Air Force Base, Ala. 36112-6663. Deadline for submitting the completed scholarship package is December 1 of the year prior to entering the college freshman year.

Scholarships for 3½, 3, 2½, and 2 years are also available to college students in the scientific, technical and non-technical areas. There are also two- and three-year nursing and premedical scholarships available for qualified men and women. Application inquiries and submissions are made to the Professor of Aerospace Studies at the Air Force ROTC detachment during the college freshman or sophomore years. The majority of scholarships pay full college tuition and most laboratory, textbook and incidental fees, plus a \$100 monthly non-taxable allowance during the school year.

ROTC registration

Air Force ROTC classes are listed in school catalogs of 152 colleges and universities hosting an Air Force ROTC unit, or at one of more than 600 institutions which have a cross-town agreement or consortium agreement with an Air Force ROTC host institution. Students wishing to enroll in the General Military Course may do so just as they would for any other campus course. If they are enrolling at a college with a cross-enrollment agreement, students must contact the college registrar. To enter the POC, contact the Professor of Aerospace Studies no later than the mid-winter sophomore term.

AFROTC flight training

Air Force ROTC pilot candidates who do not possess a civilian or military pilot rating must successfully complete an Air Force ROTC-sponsored course of flight training to remain eligible for Undergraduate Pilot Training after commissioning.

In addition to the above-mentioned scholarship, training and educational opportunities, Air Force ROTC cadets may also apply to delay entering active duty to pursue a graduate degree, plus they may benefit from space-available military air travel.

Aviation programs

Air Force pilot training is a 52-week program conducted at five bases in the United States. These training courses are available to commissioned men and women who qualify for duty as rated pilots. Officers must meet the required physical qualifications and apply in sufficient time to enter training before reaching age 27½.

Air Force navigator training is available to qualified commissioned officers. The 34-week Specialized Undergraduate Navigator Training (SUNT) Program is conducted at Mather Air Force Base, Calif., training electronic warfare officers; weapons systems officers; and tanker, transport and bomber officers prior to earning their wings. Officers must meet physical qualifications and apply in sufficient time to enter training prior to reaching age 27½.

Medical programs

The Air Force offers direct appointments to graduates of medical, dental and nursing schools, as well as allied health science professionals and health care administrators.

Air Force ROTC Pre-Health Professions

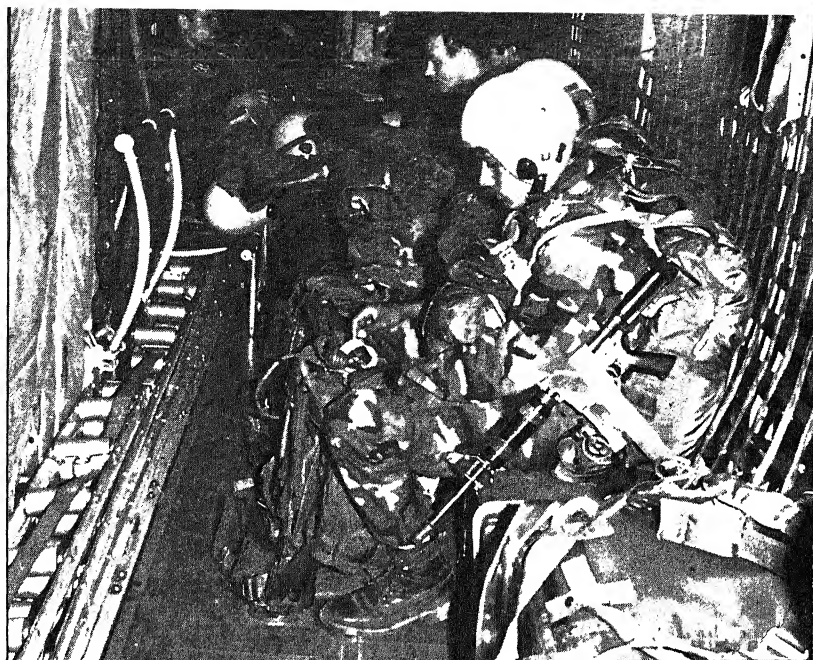
Program: This program encourages students to earn commissioning through Air Force ROTC, with or without a scholarship and subsequent special qualifications for sponsorship under the Armed Forces Health Professions Scholarship Program in selected health professions schools, or in the Uniformed Services University of Health Sciences. Program members are commissioned second lieutenants in the Air Force upon completion of Air Force ROTC and baccalaureate degree requirements. Participants are guaranteed an Armed Forces Health Professions Scholarship to attend medical school providing they gain acceptance to a medical school prior to their commission/graduation date.

Air Force ROTC Nurse Program: Students who have two years remaining at an approved nursing school affiliated with an Air Force ROTC unit may apply to this program and receive \$100 per month. Scholarships are also available. After obtaining a degree, they serve four years on active duty. To obtain additional information, students should contact their school counselor, an Air Force recruiter, the Professor of Aerospace Studies at any college or university Air Force ROTC, or by writing directly to Air Force ROTC, Office of Public Affairs, Maxwell Air Force Base, Ala. 36112.

Education opportunities

Enlisted education

The Community College of the Air Force is an avenue open for enlisted members to advance their education by earning an Associate in Applied Science degree directly corresponding to their Air Force job. The college is regionally accredited and offers more than 65 programs in five career areas.



Tuition assistance

Air Force members are openly encouraged to supplement their military and technical training through off-duty academics. Tuition assistance programs relieve students of heavy financial burdens associated with college education. The Air Force pays up to 75 percent of tuition costs. Tuition assistance is available for courses taken at any VA-approved college or university.

Through the Airman Education and Commissioning Program, enlisted members with 45 semester hours in scientific or technical disciplines can complete baccalaureate degrees and earn officer commissions.

Bootstrap is another specialized program for enlisted members. Selected members are reassigned to temporary duty at a civilian college for up to one year to complete degree requirements. Accepting either of these programs requires an additional active duty service commitment.

In addition to the applied science degree offered through the CCAF, accredited civilian colleges and universities offer courses at bases located near their area. Many are taught on the base with convenient locations and class schedules.

Officer education

Continuing education for officers is encouraged and expected. Education provides a broadening of perspective while enabling the Air Force to maintain a quality officer corps capable of meeting tomorrow's challenges.

Officers enjoy many of the same off-duty and supplemental education benefits as enlisted personnel. Additionally, there are several Air Force programs which cover tuition costs.

One "in-house" degree-granting institution is the Air Force Institute of Technology (AFIT). AFIT, which

is accredited by the North Central Association of Colleges and Schools, today offers education programs at the bachelor's, master's, and doctoral levels through AFIT's School of Engineering, the School of Systems and Logistics, and its Civilian Institution Programs.

The goal of Civilian Institution Programs is to provide education to meet specific Air Force requirements through civilian universities, research centers, hospitals, and industrial or business organizations. Examples are:

College Senior Engineering Program (CSEP): When available, this program allows engineering students within one year of their bachelor of science degrees to enlist in the Air Force in the pay grade of E-3 for their last year of college. The students go to Officer Training School for commissioning after completing their degrees. However, if students enrolled in this program fail to complete degree requirements within the contracted time (up to 12 months), they are obligated to serve two years on active duty in an enlisted status.

Health Education programs: These programs include advanced degree and certificate programs for career Air Force Medical Service officers. Health Professions Scholarships are available for medical school for active duty officers on a competitive basis.

Senior Commander Sponsored Education Program: This program allows approximately 25 selected officers who have demonstrated top academic and military performance to be placed in leading civilian universities known for their excellence in science, engineering and technical management to complete programs leading to master's or doctoral degrees.

Education with Industry Program: This program consists of officer non-degree education involving assignment with an industry, business or governmental agency. For example, participants intern at managerial levels in the following areas: Computer Resource Management, Cost Analysis, Audiovisual Management, Retail Management, Nuclear Engineering and Transportation Management.

Reserve and National Guard programs

Air Force Reserve

Part-time positions in the Air Force Reserve offer people a variety of challenges and opportunities to contribute to the country's security without interrupting regular routines of work or school.

Personnel train in Reserve units and individual programs for tactical air support, tactical and strategic airlift, civil engineering, electronics, rescue and medical missions among others. Women may apply for all Air Force Reserve non-combat-related positions.

To enlist, non-prior-service applicants must be at least 17 and not have reached their 35th birthday (parental consent is required for those under 18) and enlist for six years. Basic training and technical school requirements are the same as for active duty Air Force enlistees. All must serve an initial active duty tour of training. Reservists subsequently attend unit training assemblies with their units one weekend a month, plus two weeks annual active duty for training, usually scheduled during the summer.

The Reserve offers cash enlistment bonuses to qualified individuals enlisting for the first time in certain specialties. Reenlistment bonuses are offered to prior-service personnel who have between six and 10 years total military service. Moreover, all eligible enlistees may apply for the new Reserve GI Bill educational benefits.

Air National Guard

Air National Guard (ANG) career fields are much the same as the active Air Force. Men and women may enlist from age 17 to 34. Parental consent is required for those who are 17.

Normally, applicants must be high school graduates or equivalent (possessing a GED certificate). High school seniors may enlist anytime during their last year of school with authenticated graduation enlistment documents. Non-high school graduates must score in mental category I or II of the Armed Services Vocational Aptitude Test.

Initial Guard training consists of active duty basic training and usually a technical school. Training time depends on the selected job skill, however, initial active duty must be not less than 12 weeks total. During initial active duty, full military pay and privileges are earned. Following initial active duty, ANG members train with a local unit two days each month and an additional 15 days each year. Guard members also receive state benefits, which may vary from state to state. Women qualify for enlistment in all job skills except combat-related positions.

Flight training is available to ANG commissioned officers in regular Air Force flight schools. As a rule, these officers return to their home units for flight duty after completing undergraduate pilot training and combat crew training.

To obtain detailed Air National Guard information, write to the adjutant general's office at the appropriate state capital or ANGSC/MPR, Mail Stop 18, Andrews Air Force Base, Md. 20331-6008.

Air National Guard

commissioning program

Air National Guard Academy of Military Science: The Air National Guard operates its own officer training school at McGhee Tyson Airport, Knoxville, Tenn. The Academy of Military Science provides initial military training. Students attend the six-week course in pay grade E-5 or their former enlisted grade if

higher, and are commissioned upon graduation. A college degree is required in all career fields.* Direct commissions are available to personnel in some professional fields (legal, Chaplain and medical). However, the accepted rule is that all officer candidates without prior commissioned service must attend the ANG Academy of Military Science.

*The degree requirement in certain career fields may be waived provided the applicant has at least two years of college. Waivers are approved only for those who document a plan and agree to attain a degree within seven years of commissioning.

Air Force occupations

Career Fields	Duties & Responsibilities	Qualifications	Examples of Civilian Jobs
Accounting, Finance and Auditing	Prepares documents required to account for and disburse funds, including budgeting, allocation, disbursing, auditing and preparing cost analysis records.	Dexterity in the operation of business machines. Typing, mathematics, statistics and accounting desirable. High administrative aptitude mandatory.	Public accountant, auditor, bookkeeper, budget clerk and paymaster.
Administration	Prepares correspondence and statistical summaries, arranges priority and distribution systems, maintains files, prepares and consolidates reports and arranges for graphic presentation.	Business, English, typing, and mathematics courses desirable.	Clerk typist, file secretary, stenographer, receptionist.
Aircraft Maintenance	Performs the mechanical functions of maintenance, repair, and modification of helicopters, turbo-prop, reciprocating engine and jet aircraft.	Considerable mechanical or electrical aptitude and manual dexterity. Physics, hydraulics, electronics, mechanics and mathematics desirable.	Aircraft mechanic, airframe inspector.
Aircrew Operations	Primary duties require frequent and regular flights. Inflight Refueling Operator performs duties associated with inflight refueling of aircraft; Defensive Aerial Gunner is a B-52 integrated crewmember with responsibility for defense of the aircraft; Aircraft Loadmaster supervises loading of cargo and passengers and operates aircraft equipment; Pararescue/Recovery personnel perform aircrew protection skills; and Flight Engineers ensure mechanical condition of the aircraft and monitor inflight aircraft systems.	High electrical and mechanical aptitude, manual dexterity, normal vision and good physical condition. Mathematics, physics, general science, English, typing, computer principles, and shopwork desirable.	Aircraft mechanic, electrician, hydraulic tester, oxygen systems tester, cargo handler, dispatcher and shipping clerk depending upon the area in which training and experience is received.

Career Fields	Duties & Responsibilities	Qualifications	Examples of Civilian Jobs
Aircraft Systems Maintenance	Performs maintenance of aircraft accessory systems, propulsion systems, fabrication of metal and fabric materials used in aircraft structural repair, and inspection and preservation of aircraft parts and materials.	Electrical or mechanical aptitude and manual dexterity. Electronics, mathematics, hydraulics, mechanics, chemistry, metal-working and mechanical drafting desirable.	Aircraft mechanic, aircraft electrician, sheet metal worker, welder, machinist.
Aircrew Protection	Performs functions involved in the instruction of aircrew and other designated personnel on the principles, procedures, and techniques of global survival. This includes life support equipment, recovery, evasion, captivity, resistance to exploitation and escape.	Good physical condition required; knowledge of pioneering and woodsman activities helpful. Courses in communications, science, and education desirable.	No civilian job covers the scope of the jobs in this career field, but a related job is that of hunting or fishing guide.
Avionics Systems	Installs, maintains and repairs airborne bomb navigation, fire control, weapon control, automatic flight control systems, radio and navigation equipment and maintains associated test and precision measurement equipment.	Electronic aptitude, manual dexterity and normal vision. Mathematics, physics, chemistry, electronics and trigonometry desirable.	Radar, television and precision instrument maintenance.
Band	Plays musical instruments in concert bands and orchestras, repairs and maintains instruments, vocalist, performs as drum major, arranges music and maintains music libraries.	Knowledge of rudiments of music, elementary theory of music and orchestration desirable.	Orchestrator, music librarian, music teacher, instrumental musician.
Command and Control Systems Operations	Performs functions involved in aerospace surveillance and aerospace vehicle detection, including missile warning systems, controlling, and plotting. Includes control tower and airways operation; ground-controlled approach procedures; operation of all types of ground radar and related communications equipment, except weather equipment.	Good physical and emotional condition required. Courses in typing, mathematics, business machines, communications, English and science desirable.	
Communications-computers	Operates radio and wire communications systems, automatic digital switching equipment, cryptographic devices, airborne and ground electronic countermeasures equipment, all kinds of communication equipment, and the management of radio frequencies. Collects, processes, records, prepares and submits data for various automated systems, analyzes design, programs and operates computer systems.	Knowledge of telecommunications functions and operations of electronic communications equipment. Typing or keyboard experience, and clear speaking voice desirable in many specialties. Business math, algebra and geometry desirable.	Central office operator (telephone and telegraph), cryptographer, radio operator, telephone supervisor and photoradio operator. Card-tape converter or computer operator, data typist, data processing control clerk, high-speed printer operator, programmer.

Career Fields	Duties & Responsibilities	Qualifications	Examples of Civilian Jobs
Communication-Electronics Systems	Installs, modifies, maintains, repairs and overhauls airborne and ground television equipment, high speed general and special purpose data processing equipment, automatic communications and cryptographic machine systems, teletype-writer, teleautographic equipment, telecommunications systems control and associated electronic test equipment.	Basic knowledge of electronic theory. Mathematics and physics desirable. Normal color vision mandatory.	Communications, electronics technician, radio and television repairer, meteorological and teletype equipment repairer.
Control Systems Operations	Operates control towers, directs aircraft landings with radar landing control equipment; operates ground radar equipment, aircraft control centers, airborne radar equipment, space tracking and missile warning systems.	Equipment dexterity, clear voice and speech ability and excellent vision. English desirable.	Aircraft log clerk, airport control operator and air traffic controller.
Dental	Operates dental facilities and provides paraprofessional dental care; preventive dental services, treatment of oral tissues and fabricates prosthetic devices.	Knowledge of oral and dental anatomy; biology and chemistry desirable.	Dental hygienist, dental assistant.
Education and Training	Conducts formal classes of instruction, uses training aids, develops material for various courses of instruction; teaches classes in general academic subjects and military matters, and administers educational programs.	English composition and speech desirable.	Vocational training instructor, counselor, educational consultant, or administrator.
Fire Protection	Operates firefighting equipment, prevents and extinguishes aircraft and structural fires; rescues and renders first aid; maintains firefighting and fire prevention equipment.	Good physical condition; no allergies to oil and fire extinguishing solutions; general science and chemistry desirable.	Fire chief, fire extinguisher service person, firefighter, fire marshal and fire department person.
Fuels	Receives, stores, dispenses, tests and inspects propellants, petroleum fuels and products.	Chemistry, math, and general science desirable.	Petroleum industry supervisor and bulk plant manager.
Geodetic	Procures, compiles, computes and uses topographic, photogrammetric and cartographic data in preparing aeronautical charts, topographic maps and target folders.	Ability to use precision instruments required in measuring and drafting; algebra, geometry, trigonometry and physics necessary.	Cartographer, topographical drafter, mapmaker, and advertising layout person.
Intelligence	Collects, produces and disseminates data of strategic, tactical or technical value from an intelligence viewpoint. Maintains information security.	Knowledge of techniques of evaluation, analysis, interpretation and reporting, foreign languages, English composition, photography, mathematics and typing desirable.	Cryptoanalyst, draftsman, interpreter, investigator, statistician, radio operator and translator.
Intricate Equipment Maintenance	Overhauls and modifies photographic equipment; work with fine precision tools, testing devices and schematic drawings.	Considerable mechanical ability and manual dexterity; algebra and physics desirable. Must have normal color vision.	Camera repairer, statistical machine and medical equipment service person.

Career Fields	Duties & Responsibilities	Qualifications	Examples of Civilian Jobs
Legal	Takes and transcribes verbal recordings of legal proceedings; uses stenomask; performs office administrative tasks; processes claims.	Knowledge of stenomask, typewriter, legal terminology, military processing of claims; English grammar and composition; ability to speak clearly and distinctly.	Law librarian, court clerk and shorthand reporter.
Management Analysis	Collects, processes, records, controls, analyzes, and interprets special and recurring reports, statistical data and other information.	Knowledge of business statistics, mathematics, accounting and English desirable. Completion of high school or GED equivalent mandatory.	Statistical, accounting and budget clerk.
Mechanical/Electrical	Performs installation, operation, maintenance and repairs of base direct support systems and equipment.	Physics, mathematics, blueprint reading and electricity.	Elevator repairer, electrician, lineman, powerhouse repairer, diesel mechanic, pipefitter, steamfitter and heating and ventilating worker.
Medical	Operates medical facilities, works with professional medical staff as they provide care and treatment. May specialize in such medical services as nuclear medicine, cardiopulmonary techniques, physical and occupational therapy, orthopedic appliances, medical laboratory and medical administrative services.	Knowledge of first aid, ability to help professional medical personnel; anatomy, biology, zoology. High school algebra and chemistry desirable in most specialties and are mandatory requirements for some.	X-ray and medical record technician, medical laboratory and pharmacist assistant. Respiratory therapy technician and surgical technologist.
Missile Systems Maintenance	Assembles, transports, installs, maintains, inspects, modifies, and repairs missiles, missile airframes and subsystems and remotely piloted vehicles. Inspects, maintains, repairs, calibrates, and modifies missile facilities support systems, liquid propellant systems, test equipment, and related missile and remotely piloted vehicle sub-systems.	Mechanical or electrical aptitude and manual dexterity. Mathematics and physics desirable. Normal color vision mandatory.	Missile facilities repairer, electronics mechanic, and aircraft mechanical/electrical system repairer. Mechanical inspector, mechanical engineer, aircraft mechanic, and pneumatic tester and mechanic.
Morale, Welfare and Recreation	Conducts physical conditioning, coaches sports programs, administers recreation, entertainment, sports and club activities.	Good muscular coordination; English, business math and physical education desirable.	Athletic or playground director, physical education instructor and manager of a recreational establishment.
Vehicle Maintenance	Overhauls and maintains powered ground vehicles and mechanical equipment for transporting personnel and supplies.	Machine shop, mathematics and training in the use of tools and blueprints helpful.	Automobile accessories installer, automobile repairer, bus mechanic, carburetor person, automotive electrician and truck mechanic.
Munitions and Weapons Maintenance	Maintains and repairs aircraft armament; assembles, maintains, loads, unloads and stores munitions and nuclear weapons; disposes of bombs, missiles and rockets and operates detection instruments.	Mechanical or electrical aptitude, manual dexterity, normal color vision and depth perception. Mathematics, mechanics, and physics desirable.	Aircraft armament mechanic, armorer, ammunition inspector, munitions handler.

Career Fields	Duties & Responsibilities	Qualifications	Examples of Civilian Jobs
Personnel	Interviews, classifies, selects career jobs for airmen on the basis of qualifications and requirements of the Air Force; administers aptitude, performance tests; administers personnel quality control programs; performs counseling, educational and administrative functions.	English composition and speech. Operation of simple data processing equipment and typing ability desirable.	Employment or personnel clerk, special services supervisor, personnel service manager, personnel supervisor, counselor.
Public Affairs	Interviews people; reports news; composes, proofreads, writes and edits news copy; provides public affairs advice.	High general aptitude and completion of high school or GED equivalency mandatory. English grammar and composition, speech, journalism, drama, radio/television, history, or political science desirable.	Reporter, copy reader, historian, public relations representative, editorial assistant, broadcast or program director, announcer.
Reprographic	Operates and maintains reproduction equipment used in the graphic arts, performs hand and machine composition and binding operations.	Mechanical ability and dexterity; courses in chemistry and shop mechanics desirable.	Lithographic press, fold machine, offset and webpress, perforating machine or duplicating machine operator; bookbinder; photo-lithographer; photoengraver.
Safety	Performs functions related to the conduct of both safety and disaster preparedness programs. Conducts safety programs, surveys areas and activities to eliminate hazards, analyzes accident causes and trends. Trains personnel to accomplish the primary mission under the handicaps imposed by enemy attack and by acts of man and nature.	Knowledge of industrial hygiene, safety education, safety psychology, and blueprint interpretation. Typing, English, public speaking, mathematics, and science desirable.	Safety inspector and instructor.
Sanitation	Operates and maintains water and waste processing plant systems and equipment and performs pest and rodent control functions.	Physics, biology, chemistry and blueprint reading valuable.	Purification plant operator, sanitary inspector, exterminator and entomologist.
Security Police	Provides security for classified information and material, enforces law and order, controls traffic, and protects lives and property, organizes as local ground defense forces.	Good physical condition, vision and hearing; civics and social sciences desirable.	Guard, police inspector, police officer, and superintendent of police.
Special Investigations/Counterintelligence	Investigates violations of the Uniform Code of Military Justice and applicable federal statutes, investigates conditions pertaining to sabotage, espionage, treason, sedition and security.	Knowledge of law enforcement and security regulations, good physical condition, hearing and vision; civics, social sciences, accounting and foreign languages desirable.	Detective, chief of detectives, detective sergeant and investigator.
Structural/Pavements	Constructs and maintains structural facilities and pavement area; maintains pavements, railroads and soil bases; performs erosion control; operates heavy equipment; performs site development, general maintenance, cost and real property accounting, work control functions and metal fabricating.	Blueprint reading, mechanical drawing, mathematics, physics, and chemistry.	Plumber, bricklayer, carpenter, stonemason, painter, construction worker, welder and sheet metal worker.

Enlistments

Army enlistments range from two to six years for applicants 17 to 34 years old. Qualified enlistees may choose training from any of more than 300 skills, or a unit, or an area of choice from world-wide assignments. In certain situations, an enlistee may receive both the skill training and location desired. Applicants for specific options are given separate qualification tests.

At enlistment, new soldiers are given a written guarantee for training in their chosen jobs, provided requirements for course attendance are met and school quotas are available. Enlistees may also receive an enlistment bonus from \$2,000 to \$8,000 for enlisting for and completing training in some military skills ranging from combat arms to language training.

Some high school graduates who enlist for certain military specialties can take advantage of the Montgomery GI Bill plus the Army College Fund. A soldier wishing to take advantage of this Army special offer must sign up for the Montgomery GI Bill and deposit \$100 a month of his or her first year's salary into a special "savings account" for college funds. The Army will match these funds and add more. A qualified soldier could accumulate \$25,200 in a four-year enlistment.

Applicants who have a civilian skill which is needed by the Army may be appointed to grade E-3 upon entry. They are then eligible for further accelerated promotion to grade E-4 after outstanding performance in an Army unit. Those applicants who have completed high school training in skills needed by the Army may be enlisted in grade E-2 and appointed to E-3 after eight weeks of satisfactory performance in a unit. This program is called Army Civilian Acquired Skills Program (ACASP). Additionally, qualified persons who participated in Junior ROTC or National Defense Cadet Corps programs, or referred qualified applicants who subsequently enlist, may be eligible to receive an advanced pay grade.

Initial entry training

The objective of Initial Entry Training is to develop a disciplined, motivated soldier who is qualified with a weapon, physically conditioned and drilled in the elements of soldiering. The object of Advanced Individual Training (AIT) is to provide the soldier with the initial skills required to function in the first unit of assignment. Men and women receive the same Basic Combat Training and AIT.

Initial Entry Training is conducted in two ways. All combat and some combat support soldiers attend One Station Unit Training at one of the following locations: Infantry—Fort Benning, Ga.; Armor—Fort Knox, Ky.; Field Artillery—Fort Sill, Okla.; Air Defense

Artillery—Fort Bliss, Texas; Combat Engineer—Fort Leonard Wood, Mo.; and Military Police—Fort McClellan, Ala. One Station Unit Training provides both common skills (Basic Combat Training) and skills required for performance in occupational fields (Advanced Individual Training).

Soldiers in other occupational fields attend Basic Combat Training for eight weeks during which they learn common skills, then move on to Advanced Individual Training (averaging nine weeks) during which they are presented occupational field skills. Basic Combat Training is located at Fort Dix, N.J.; Fort Jackson, S.C.; and Forts Knox, Leonard Wood, and Sill.



Advancement

After completing six months of active service, a private E-1 is promoted to private E-2 with the commander's approval. Promotion to private first class (E-3) requires 12 months active service, four months time-in-grade as an E-2, and the commander's approval. To meet requirements for promotion to E-4, the

individual must have 24 months service, six months time-in-grade as an E-3 and the commander's recommendation. In exceptional cases, the commander may accelerate promotions to E-2, E-3 and E-4.

Eligibility for promotion to E-5 and E-6 requires the individual to compete by Military Occupational Specialty category using standardized criteria under the Army's current 1,000-point system. Some of the qualifications are full job skill proficiency in which the promotion will be made, the commander's recommendation, successful completion of a physical training test, weapons qualification scores, a qualifying

Skill Qualification Test score, and a high school diploma or GED equivalent. Waivers for certain criteria are authorized to allow well-qualified soldiers to advance more rapidly.

In addition to the above standards, promotions to grade E-5 and E-6 require appearance before and selection by a board of officers and noncommissioned officers. Promotions to E-7 through E-9 are centralized and require selection by Department of the Army boards. The numbers of promotions made to grades E-5 through E-9 are controlled monthly by the Department of the Army.

Commissioning programs

U.S. Military Academy

The U.S. Military Academy offers bachelor of science degrees with majors available in both engineering fields and liberal arts and a commission in the U.S. Army to men and women who graduate from the Academy's four-year program. Competition to enter the academy is tough. Applicants should begin their quest for entry into the academy no later than the middle of their junior year in high school.

Information on entry into the academy and how to obtain an appointment is found in the General Section of this magazine under Service Academies.

U.S. Military Academy Preparatory School

Individuals desiring to enter the U.S. Military Academy may apply to attend the U.S. Military Academy Preparatory School for one year to improve their academic skills and gain an appointment to the following year's class.

To achieve basic eligibility requirements, an applicant must: be at least 17 and not more than 21 years of age on July 1 of the year of entrance; be a native of the U.S. or a naturalized citizen prior to entering the military academy; be unmarried and have no legal obligation to support dependents; be in good health with no disqualifying physical defects; have vision correctable to 20/20 and be a high school graduate, or the equivalent, with a solid academic background.

Applicants should have four years of English and three years of college preparatory mathematics. An individual with obvious leadership potential and a weaker academic background should not be discour-

aged from applying since many factors are considered. Individuals accepting invitations to attend the U.S. Military Preparatory School enlist into the Army Reserve with an eight-year obligation.

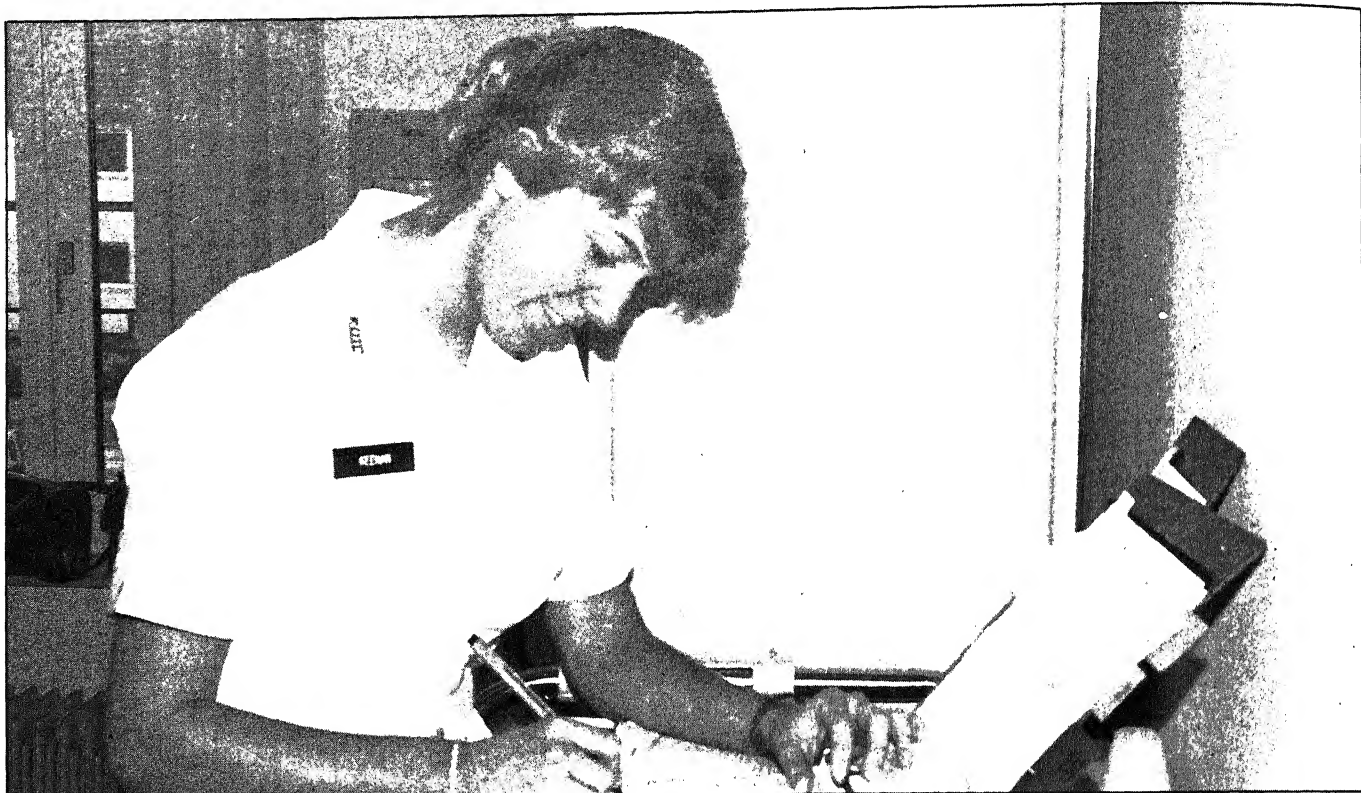
For further information, contact the Commandant, U.S. Military Academy Preparatory School, ATTN: MAPS-AD-A, Ft. Monmouth, N.J. 07703.

Officer Candidate School

Qualified enlisted personnel and warrant officers in the active Army, Army Reserve and National Guard may apply for attendance at OCS. Fourteen weeks are required to complete the course. Age criteria for all active Army, Army National Guard and Army Reserve applicants is they may not have reached their 30th birthday before commissioning.

Those civilians entering the active Army with the enlistment option to attend OCS must have a baccalaureate degree from an accredited college or university. Two years of college credit from an accredited college or university is required for Reserve personnel. Upon satisfactory completion of the course, active Army graduates are required to serve a minimum of three years in an active commissioned status.

Outstanding enlisted members of the Army Reserve and Army National Guard units who have completed their active duty training may apply to attend the Federal OCS course conducted by the active Army. After completion of the course, members return to their units and complete their obligation as Reserve or National Guard officers. OCS is now available as an enlistment option for individuals interested in serving as officers in the Army National Guard or Reserve.



Reserve Officers' Training Corps

Army ROTC is the primary source of college-trained officers for the U.S. Army, the Army Reserve and the Army National Guard. Army ROTC is currently offered at more than 300 host institutions, 100 extension centers and through cross-enrollment agreements between host institutions and more than 1,000 colleges and universities in all 50 states, the District of Columbia, Puerto Rico and Guam.

Army ROTC is a four-year program divided into two parts – the Basic Course and the Advanced Course. The Basic Course is normally attended during the freshman and sophomore years. No military commitment is incurred in the Basic Course for nonscholarship cadets. The students may withdraw at any time before the beginning of the third year. Subjects taught include leadership and management development, communications, land navigation, military history, small unit tactics, drill and ceremonies, military courtesy, discipline and customs. ROTC uniforms, textbooks and materials are furnished without cost to the student.

After completing this course, selected students may enroll in the Advanced Course during the final two years of college. Instruction in this program includes further leadership development, ethics and professionalism, principles of war and military justice. During the advanced course, the cadet is provided hands-on leadership experience in various leadership positions within the cadet chain of command. Campus and laboratory instruction is reinforced via weekend field training exercises. Cadets in the Advanced Course receive uniforms, necessary military science text-

books, and a subsistence allowance of up to \$1,000 each year.

Cadets must attend a six-week Advanced Camp normally held during the summer between their junior and senior years. This camp permits cadets to further refine and put into practice the principles, theories and skills they have acquired. Cadets receive a salary during Advanced Camp. Successful completion of the Advanced Camp is required prior to commissioning.

There is a special two-year program for community and junior college graduates and students at four-year colleges who have not taken part in Army ROTC during their first two college years. Students can enter this program and qualify for the advanced course by successfully completing a six-week Basic Camp, for which they receive pay. Obligations incurred and requirements for the two- and four-year programs are the same.

Army ROTC offers scholarships for four, three and two years. Applications for the nationwide four-year scholarship program are available from April 1 to Oct. 15 from Army ROTC, P.O. Box 1688, Ellicott City, Md. 21043-0010.

Four-year scholarships are awarded on a nationwide competitive basis to U.S. citizens who will be entering the college as freshmen. Three-year and two-year scholarships are awarded competitively to students who are already enrolled in college. Students who attend the Basic Camp before entering the two-year program may also compete for two-year scholarships while at camp. Three- and two-year scholarships are available for active duty Army enlisted personnel on a

competitive basis. All ROTC scholarships pay for most tuition and on-campus educational expenses as well as a flat rate for textbooks, supplies and equipment. Each scholarship also provides a subsistence allowance of up to \$1,000 each year the scholarship is in effect.

Four-year scholarship recipients incur an obligation at the beginning of their sophomore year. Three- and two-year scholarship recipients incur an obligation concurrently with the commencement of their scholarship benefits. This obligation may be in the form of monetary payback or enlisted service if the individual fails to comply with the terms of their contract.

Under the ROTC-Reserve Forces Duty Scholarship program, a limited number of two-year scholarships are also available to students who desire to serve the Army Reserve or the Army National Guard in lieu of extended active duty.

Nursing students may qualify for appointment in the Army Nurse Corps through ROTC. See the Army health care fields section for more details.

Under the Simultaneous Membership Program, a cadet can combine service in the Army Reserve or National Guard as an officer trainee with participation in ROTC and be paid for both.

Details about the Army ROTC program may be obtained at the ROTC battalion at participating universities or by writing to Army ROTC, P.O. Box 1688, Ellicott City, Md. 21043-0010.

Aviation programs

Army commissioned and warrant officer flight training

Helicopter flight training programs are available for commissioned and warrant officer programs.

Stringent physical qualifications and successful completion of the Flight Aptitude Selection Test must be met prior to entering the flight training program or being accepted through formal application.

The Warrant Officer Candidate Flight Training Program is a way to earn pilot wings and be flying helicopters in less than a year.

High school graduates who qualify for flight training can become UH-1 Huey helicopter pilots or OH-58 Kiowa Aeroscout pilots. Training is open to both men and women, although assignment to combat aircraft is restricted to men only. Warrant officer candidates who complete flight training can expect to log approximately 175 hours of actual flying time, 42 hours in flight simulators and receive flight training worth more than \$150,000.

Upon successful completion of the Warrant Officer Candidate flight training program, the candidate will be certified a fully qualified helicopter pilot and sworn in as an Army warrant officer.

Warrant Officer Candidates attend a Warrant Officer Entry Course for approximately six weeks prior

to commencing flight training. Helicopter flight training takes approximately nine months to complete.

Aviators are obligated to five years active duty service from the date of completion of training.

Medical programs

The Army Medical Department offers direct appointments in the Medical Service Corps for those applicants who possess a qualifying degree in health sciences or a related field from an accredited school. Special areas of concentration include optometry, pharmacy, sanitary engineering, environmental science, immunology and entomology. The Army Nurse Corps offers direct appointments to qualified applicants with a Bachelor of Science in Nursing from an accredited program. Direct appointments into the Medical Corps, Dental Corps, Veterinary Corps and Army Medical Specialist Corps are also available.

The Army Medical Department offers internships in occupational therapy and dietetics leading to certification and registration. The U.S. Army-Baylor University Program in Physical Therapy Master's Degree program is also available to qualified individuals who possess a baccalaureate degree in a related field. While students matriculate through these programs, they are commissioned as officers with full pay and benefits.



Army ROTC nursing scholarships

Two-, three- and four year ROTC scholarships are now available to nursing students. The majority of these scholarship recipients will serve on active duty after appointment in the Army Nurse Corps. Nursing cadets may volunteer for the six-week Nurse Summer Training Program which includes a clinical practicum at an Army medical facility in lieu of the regular Advanced Camp.

Scholarship cadets are obligated to serve four years on active duty and the remaining four years in reserve components. If selected for Reserve Forces Duty, the cadets are obligated to serve eight years in reserve components preceded by a three- to six-month active duty period for basic training.

Education opportunities

The Army provides many different educational opportunities for its members.

Through the Army Continuing Education System, soldiers can earn a certificate, associate, baccalaureate, or graduate degree, using Army tuition assistance. A variety of vocational-technical courses are offered as well. There is also an associate degree program which allows soldiers to complete a degree regardless of how much they move around because transfer of credits is guaranteed.

Army College Fund

The Army offers special education bonuses in addition to the Montgomery GI Bill for soldiers who enlist in such job areas as a tanker or infantryman. For example, a young man or woman enlisting for a two-year tour could earn \$17,000 for a \$1,200 investment. That amount can range up to \$25,200 for a four-year enlistment.

Tuition assistance

Soldiers may receive tuition assistance for courses taken while serving on active duty. That makes it easier to be a part-time student while being a full-time soldier. The courses are the same courses civilian students take. Regionally accredited institutions worldwide provide the instruction. In most cases there will be some free time for soldiers to pursue their educational goals. Even if transferred within the United States or overseas, the transfer of credits from one school to another is simplified. Additionally, most courses are scheduled at convenient times, such as in the evenings and on weekends.



Credit for Experience

Soldiers can also earn college credits for their military experience. Military training and experience has been evaluated by the American Council on Education that has determined college level credit recommendations. For example, training and experience in computer technology may be worth college level credit and applied toward a degree with a college that accepts non-traditional credit sources. Credit awarded for military training and experience is determined by each individual college or university.

Another way to earn college credits is by taking independent studies or correspondence courses. Many of the subjects are the same as those studied in a classroom. This service is provided through the Defense Activity for Non-Traditional Education Support (DANTES). Tests worth college credit are also available through DANTES at no cost to the soldier.

Reserve and National Guard programs

Army Reserve

Men and women, 17 to 34 years old may enlist in a wide variety of openings offering skill training. Most career fields and units, except those having combat and combat-related missions, are open to women. Qualified high school students age 17 or older can enlist in the Army Reserve and attend basic training and skill training over two consecutive summers. After graduation, enlistees attend advanced individual training which lasts eight weeks or more, depending on the skill selected. Skill training usually takes several months. All full-time training nets full Army pay.

After training, reservists return to civilian life with the requirement to meet with a Reserve unit 16 hours a month (normally a weekend), plus two weeks of annual training.

Some Army Reserve units offer first term enlistees cash enlistment bonuses, and all unit members with a high school diploma may apply for educational assistance under the Montgomery GI Bill for the Selected Reserve. Soldiers who have not completed high school can be prepared for the High School Equivalency Diploma under the Army Continuing Education System.

Reservists who cannot serve with a selected reserve unit may participate in a wide variety of reserve activities as members of the Individual Ready Reserve. Training opportunities include non-resident (correspondence) instruction, service school attendance, and periods of voluntary training in the reservist's specialty with active Army units.

The Army offers fully-funded training as a licensed practical nurse to qualified enlisted personnel serving in the Army Reserve.

For further information, contact the local Army Reserve recruiter, or call toll free 1-800-USA-ARMY.

Army National Guard

The Army National Guard is unique among the world's reserve military forces, combining both federal and state functions. The National Guard provides the nation with an effective, economical military force for national defense and also gives the states a trained, equipped and disciplined force to protect life and property, while preserving the peace and public safety during disasters, civil disorders and other emergencies.

Army National Guard training includes most job areas found in the regular Army. Enlistment age is 17 to 34, with parental consent needed for those under 18. Applicants must possess, at a minimum, a ninth grade education. High school students may enlist, and, in some cases, attend basic training one summer

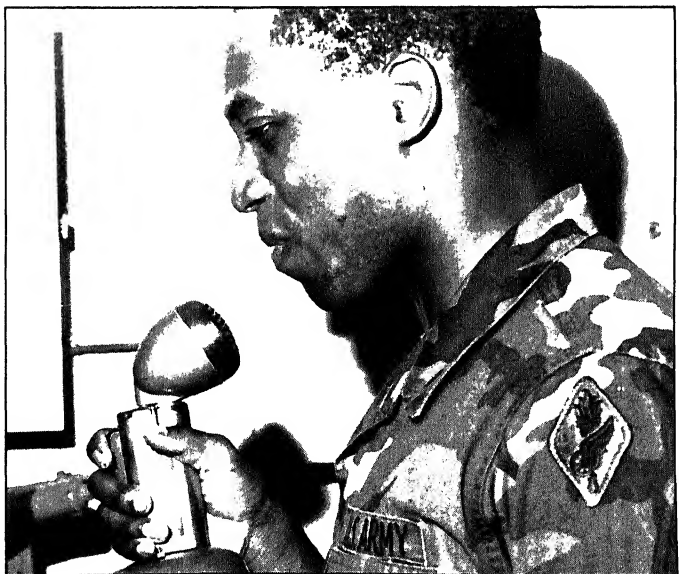
and attend advanced individual training the following summer. During this initial training, full pay and privileges are granted. Monthly and annual training are attended during the remainder of the enlistment. For further information on Army National Guard programs including cash enlistment bonuses and educational assistance under the GI Bill, contact the local National Guard Armory or call 1-800-638-7600.

Army National Guard Officer Candidate School

Two options for OCS training are available to qualified high school graduates. They may attend the active Army OCS or the state OCS. The state OCS program is designed to allow officer candidates to continue civilian pursuits. More information on this program can be obtained at any National Guard Armory. An applicant between the ages of 18 and 30 may attend OCS and obtain federal recognition upon graduation. Waivers for specific circumstances may be requested.

Simultaneous Membership Program

Basically, the SMP lets the cadet combine the benefits of the service in the National Guard with senior Army ROTC. The soldier earns pay from both the Guard and ROTC and gains valuable management experience at the same time. Specific details can be obtained from any senior ROTC enrollment officer or your neighborhood National Guard Armory.



Army occupations

CAREER FIELDS ARE LISTED ALPHABETICALLY, BEGINNING WITH THOSE COMBAT-RELATED GROUPS CLOSED TO WOMEN (INDICATED BY "C"). THOSE MARKED WITH AN ASTERISK (*) ARE GENERALLY OPEN TO ALL APPLICANTS, BUT MAY INCLUDE SPECIFIC COMBAT-RELATED POSITIONS AVAILABLE ONLY TO MEN.

Career Fields	Duties & Responsibilities	Qualifications	Examples of Civilian Jobs
Armor (C)	Performs combat tasks using tanks and armored reconnaissance vehicles.	Team sports, mechanical maintenance, orienteering.	Heavy equipment operator supervisor.
Combat Engineering (C)	Constructs and maintains roads and bridges; operates powered bridges; constructs minefields and installs booby traps, demolitions with high explosives; erects temporary shelters and sets up camouflage.	Automotive mechanics, carpentry, woodworking, mechanical drawing and drafting courses.	Blaster, construction equipment operator, construction supervisor, bridge repairer and lumber worker.
Infantry (C)	Performs combat tasks using rifles, mortars, tank destroying missiles, personnel carriers, vehicle-mounted guns and fire control equipment.	Team sports, orienteering, hunting and other outdoor sports.	Supervisor, gunsmith, security officer, firearms handler.
Administration	Performs general administrative duties such as typing, stenography and postal functions and specialized administrative duties such as personnel, legal, equal opportunity and chapel activities.	Basic clerical and communication abilities, typing, bookkeeping, stenography or office management skills desirable.	Clerk typist, secretary, employment interviewer, postal clerk, recreation specialist, office manager, personnel clerk, bookkeeper, cashier, payroll clerk and court clerk.
Aircraft Maintenance	Performs the mechanical functions of maintenance, repair and modification of helicopters, turbo-prop, and reciprocating engine aircraft.	Considerable mechanical or electrical aptitude and manual dexterity. Shop mathematics and physics desirable.	Aircraft mechanic, plane inspector.
Aircraft System Maintenance	Performs maintenance of aircraft accessory systems, propulsion systems, armament systems, fabrication of metal materials used in aircraft structural repair and inspection and preservation.	Electrical and mechanical aptitude. Shop mathematics and shop work is desirable.	Aircraft mechanic, aircraft electrician, sheet metal machinist.
Air Defense Artillery (*)	Emplaces, assembles, tests, maintains and fires air defense weapons systems; operates fire control equipment, radars, computers, automatic data transmission and associated power supply equipment.	Basic mechanical, electrical, electronic, mathematical abilities; emotional stability and high degree of reasoning ability.	Map and topographical drafter, cartographer.

Career Fields	Duties & Responsibilities	Qualifications	Examples of Civilian Jobs
Air Defense Missile Maintenance	Inspects, tests, maintains and repairs guided missile fire control equipment and related radar installations which guide missiles to target.	Mathematics, physics, electricity and electronics.	Radio installation and repair inspector, electronic equipment technician, radio and TV repairer.
Ammunition	Handles, stores, reconditions and salvages ammunition, explosives, and components; locates, removes and destroys or salvages unexploded bombs and missiles.	Mechanical aptitude, attentiveness, good close vision, normal color discrimination, manual dexterity and hand-eye coordination.	Toxic chemical handler, ammunition inspector and acid plant operator.
Audiovisual	Operates of radio and television equipment, still and motion picture photography, audiovisual equipment repair and graphic illustration.	Normal color vision, verbal ability, mathematical ability, clear speech and attentiveness.	Cameraman, camera repair, photography, illustrator and studio accessories.
Automatic Data Processing	Operates a variety of electric accounting and automatic data processing equipment to produce personnel, supply, fiscal, medical, intelligence and other reports.	Reasoning and verbal ability, clerical aptitude, finger and manual dexterity and hand-eye coordination. Knowledge of typing and office machines.	Coding clerk, key punch, computer and sorting machine operator, machine records unit supervisor.
Aviation Communications-Electronic Systems Maintenance	Repairs and maintains navigation, flight control, and associated communications equipment.	Electrical/electronic theory and repair.	Electronics technician, radar repairer, electrical instrument mechanic repairer.
Aviations Operations	Maintains, installs and repairs aviation communication radar systems used for aircraft navigation and landing; performs air traffic control duties.	Mathematics and shop courses in electricity and electronics useful.	Radio and television or electrical instrument repairer, communication, electrical and electronics engineer and radio engineer.
Ballistic/Land Combat Missile and Light Air Defense Weapons System Maintenance	Inspects, tests, maintains and repairs tactical missile systems and related test equipment and trainers.	Mathematics, physics, electricity, electronics (radio and TV) and blueprint reading.	Electronic equipment technician, radio electrician and mechanic, TV repair and service technician.
Band	Plays brass, woodwind or percussion instrument in marching, concert, dance, stage and show bands, combos or instrumental ensembles. Sings in vocal group, writes and arranges music.	Instrumental audition on brass, woodwind or percussion instrument.	Bandsperson, bandmaster, musician, accompanist, arranger, music director, orchestrator, music teacher, orchestra leader and vocalist.
Chemical	Provides decontamination service after chemical, biological or radiological attacks, produces smoke for battlefield concealment, repairs chemical equipment and assists in overall planning of chemical, biological, or radiological activities.	Biology, chemistry and electricity.	Laboratory assistant (biological, chemical or radiological), pumper and repairer (chemical) and exterminator.
Communications-Electronics Maintenance	Installs, maintains radar and radio receiving, transmitting, carrier and terminal equipment.	Electricity, mathematics, electronics and blueprint reading.	Radio control room technician, radio mechanic, transmitter, radio and TV repairer.
Communications-Cryptologic Operations	Installs, maintains field telephone switchboards and field radio communications equipment.	Mathematics, physics and shop courses in electricity.	Communications engineer assistant, plant electrician and radio electrician or operator.

Career Fields	Duties & Responsibilities	Qualifications	Examples of Civilian Jobs
Electronic Warfare Cryptologic Operations	Collects and analyzes electromagnetic emissions; performs electronic warfare duties in fixed or mobile operations.	Verbal and reasoning ability and perceptual speed; aural and visual acuity.	Radio and telegraph operator, navigator, intelligence research analyst, statistician, signal collection technician.
Electronic Warfare Intercept Systems Maintenance	Installs, operates and maintains intercept, electronic measuring and testing equipment.	Physics, mathematics, electricity, electronics (radio and TV) and blueprint reading.	Electrical instrument repairer and electronic equipment inspector.
Finance and Accounting	Maintains pay records of military personnel; prepares vouchers for payment; prepares reports, disburses funds; accounts for funds, to include budgeting, allocation, auditing; compiles and analyzes statistical data and prepares cost analysis records.	Dexterity in the operation of business machines. Typing, mathematics, statistics and basic principles of accounting desirable. High administrative aptitude mandatory.	Paymaster, cashier, statistical or audit clerk, accountant, budget clerk and bookkeeper.
Field Artillery (*)	Operates, maintains and directs fire of field artillery guns, howitzers, missiles, rockets and related weapons. Operates and maintains supporting equipment such as target acquisition radars, sound and flash ranging, meteorological and survey equipment.	Emotional stability, mathematics and reasoning abilities.	Map and topographical drafter, cartographer, surveyor, weather chart preparer.
Food Service	Plans regular and special diet menus, cooks and bakes food in dining facilities and during field exercises. Serves as aide and cook on personal staff of general officer.	Home economics, work in a restaurant, bake shop or meat market.	Cook, chef, caterer, baker, butcher, kitchen supervisor and cafeteria manager.
General Engineering	Provides utilities and engineering services such as electric power production, building and roadway construction and maintenance, salvage activities, airstrip construction, firefighting and crash rescue operations.	Mechanical aptitude, emotional stability and ability to visualize spatial relationships. Carpentry, woodworking or mechanical drawing.	Carpenter, construction equipment operator, electrician, firefighter, driver, plumber, welder, bricklayer.
Military Police	Enforces military regulations; protects facilities, roads and designated sensitive areas and personnel; controls traffic movement; guards military prisoners and enemy prisoners of war; investigates traffic accidents and crimes involving military personnel.	Sociology and demonstrated prowess and leadership in athletics and other group work helpful.	Police officer, plant guard, detective, investigator, crime detection laboratory assistant and ballistics expert.
Mechanical Maintenance	Servicing and repairs land and amphibious wheel and track vehicles ranging from cars and light trucks to heavy tanks and self-propelled weapons; installs and repairs refrigeration, bakery and laundry equipment.	Automotive mechanics, electricity, blueprint reading, machine shop and physics.	Automotive mechanic, motor analyst, bakery or refrigeration equipment repairer; frame, wheel alignment and tractor mechanic.

Career Fields	Duties & Responsibilities	Qualifications	Examples of Civilian Jobs
Medical	Assists or supports physicians, surgeons, nurses, dentists, psychologists, social workers, and veterinarians in 32 separate job classifications. Some provide direct patient care in hospitals and clinics, others make and repair eyeglasses, dentures, or ortho-medical equipment, or maintain medical records. All play significant roles in a modern world-wide health care delivery system.	Biology, chemistry, hygiene, sociology, general math, algebra, animal care; knowledge of mechanics and electronics; general clerical skills.	Social worker (case aide), practical nurse, nurse's aide, dental assistant, surgeon's assistant, psychological aide, hospital attendant or orderly, veterinary assistant, food quality control, medical equipment repairer, medical or dental laboratory technician, physical therapy assistant, dietetic technician.
Military Intelligence	Gathers, translates, correlates and interprets information, including imagery, associated with military plans and operations.	English composition, typing, foreign languages, mathematics and geography.	Investigator, interpreter, records analyst, research worker and intelligence analyst (government).
Petroleum	Receives, stores, preserves and distributes bulk-packaged petroleum products; performs standard physical and chemical tests of petroleum products; storage and distribution of purified water.	Hygiene, biology, physics, chemistry and mathematics.	Biological laboratory assistant, petroleum tester, chemical laboratory assistant.
Public Affairs	Prepares and disseminates news releases on military activities; prepares scripts, newsletters, announcements and public speaking engagements.	Clerical aptitude, verbal ability, clear speech and attentiveness.	Newspaper editor, editorial assistant, public information center.
Supply and Service	Receives, stores and issues individual, organizational and expendable supplies, equipment and spare parts; establishes, posts and maintains stock records; repairs and alters textile, canvas and leather supplies, rigs parachutes, decontaminates materials. Performs mortuary and grave registration functions.	Mathematical ability and perceptual speed in scanning and checking supply documents. Verbal ability; courses in book-keeping, typing and office machine operation.	Inventory clerk, stock control clerk or supervisor, shipping or parts clerk, warehouse manager, parachute rigger and funeral director.
Topographic Engineering	Performs land survey; produces construction drawings and plans, maps, charts, diagrams and illustrated material; constructs scale models of terrain and structures. Operates offset duplicators, presses and bindery equipment. Repairs survey instruments and reproduction equipment.	Mechanical drawing and drafting, blueprint reading, commercial art, fine arts, geography and mathematics.	Drafting (structural, mechanical and topographical) cartographic and art layout, model maker, commercial artist and physical geographer.
Transportation	Operates and performs preventive maintenance on passenger, light, medium and heavy cargo vehicles; operates and maintains marine harbor craft; performs as air traffic controller.	Mechanical aptitude, manual dexterity, eye/hand coordination, FAA certification for air traffic control, license for vehicle operation.	Truck driver, FAA air traffic controller.

Information on entry into the academy and how to obtain an appointment is found in the General Section of this magazine under Service Academies.

U.S. Naval Academy Preparatory School

The U.S. Naval Academy Preparatory School, located at Newport, R.I., accepts applications from active duty and inactive reserve members of the Marine Corps. Additionally, personnel who have applied to the Naval Academy, but were not selected due to academic deficiency, may apply to the Naval Academy Preparatory School for the next course. Entrance requirements are based on the "whole person" evaluation of overall abilities and potential, and are similar to those of the other prep schools.

Information can be obtained from the Director of Candidate Guidance, U.S. Naval Academy, Annapolis, Md. 21401.

Broadened Opportunity for Officer Selection and Training

BOOST offers active duty enlisted men and women between the ages of 18 to 24 the opportunity to receive up to 12 months of extensive academic preparation in order to be competitive for selection to the Naval Academy, Marine Corps Enlisted Commissioning Education Program (MECEP), and Navy/Marine Corps ROTC scholarship programs. BOOST participants attend school at the Naval Training Center (NTC) in San Diego, Calif. If not selected for either a Navy/Marine Corps ROTC scholarship, MECEP, or appointment to the Naval Academy, BOOST students fulfill their service obligation to the Marine Corps in the enlisted ranks.

Officer Candidate School

Under the officer candidate programs, male and female graduates of an accredited four-year college or university, and graduates of accredited law schools, licensed to practice in a state or federal court, are eligible for a reserve commission.

Upon successful completion of a 10-week screening and evaluation program, candidates are commissioned as second lieutenants in the Marine Corps Reserve. Qualified enlisted personnel are eligible to apply for the Enlisted Commissioning Program.

Upon completion of this program and commissioning, second lieutenants are assigned to The Basic School at Quantico, Va., for 23 weeks of officer training. Upon completion of the Basic School, aviation officers undergo flight instruction for an additional 12 to 18 months.

Ground officers have an active duty obligation of 3½



years after commissioning; aviators (pilots and flight officers) have an active duty obligation of 4½ years after designation as a pilot or flight officer.

Aviation candidates must be at least 20 years old upon entering the program and no older than 27½ upon commissioning. Ground officers must be no older than 28 upon commissioning, which is waiverable to age 30.

Platoon Leaders' Class

Marine Platoon Leaders' Class (PLC) is available to full time, physically qualified male undergraduate freshmen, sophomores and juniors and female juniors attending accredited colleges. Precommissioning training consists of two six-week sessions or one 10-week session during summer vacation(s) at the Marine Corps Combat Development Command, Quantico, Va.

PLC students may choose ground, aviation or law training, and may apply for financial assistance of \$100 per month upon completion of at least one summer training session. Aviation students may join the Flight Indoctrination Program and receive civilian flight instruction during their senior year of college.

Upon graduation from college, PLC participants receive commissions as second lieutenants in the Marine Corps Reserve. Officers are then assigned to The Basic School at Quantico for 23 weeks of basic officer training.

Students opting for ground or law training must be at least 17 years old upon entering the program and no older than 28 upon commissioning.

Pilot candidates must be at least 17 upon entering the program and no older than 27½ upon commissioning.

Minimum active duty obligation for ground officers and lawyers, following commissioning, is 3½ years. Following flight training and designation as a naval aviator, minimum active duty obligation is 4½ years.

Depending on the amount of financial assistance received, minimum active duty requirements may be extended.

Reserve Officers' Training Corps

Navy/Marine Corps ROTC programs at more than 65 colleges and universities across the country offer Marine Corps commissions to college students who complete four years of a naval science study on campus. The two types of programs are the College Program and the Scholarship Program. In addition to students already enrolled in college programs, or planning to attend college, qualified enlisted personnel are eligible to apply for the Navy/Marine Corps ROTC Scholarship.

Four-Year Scholarship Program: Students are selected from national competition and are appointed Midshipmen, U.S. Naval Reserve and identified as Marine Corps options. They may be granted the compensation and benefits authorized by law during the basic course for a total period of not more than four years (40 months). During this period of college, the Department of Navy pays for tuition, fees and textbooks, and provides uniforms and a subsistence allowance of \$100 per month. Upon completion of naval science requirements and graduation, students are commissioned as second lieutenants with a four-year active duty obligation.

Four-Year College Program: Students are selected from among those applying for enrollment at each Navy/Marine Corps ROTC unit. During the first two years in the basic course, students have the status of civilians who have entered into a contract with the Navy. Upon completion of one term of the basic course, students may apply for a change to a Marine Corps option. Upon enrollment in the Advanced Course, College Program students enlist in the Marine Corps Reserve. Upon graduation and completion of naval science requirements, students are commissioned as second lieutenants in the Marine Corps Reserve with a 3½ year active duty obligation. The Department of the Navy provides uniforms, naval science textbooks, and \$100 a month subsistence allowance for a maximum of 20 months during the Advanced Course.

Three-, two- and one-year scholarships are available to College Program students nominated by their NROTC unit commanding officers. Selections are made by the Commandant of the Marine Corps.

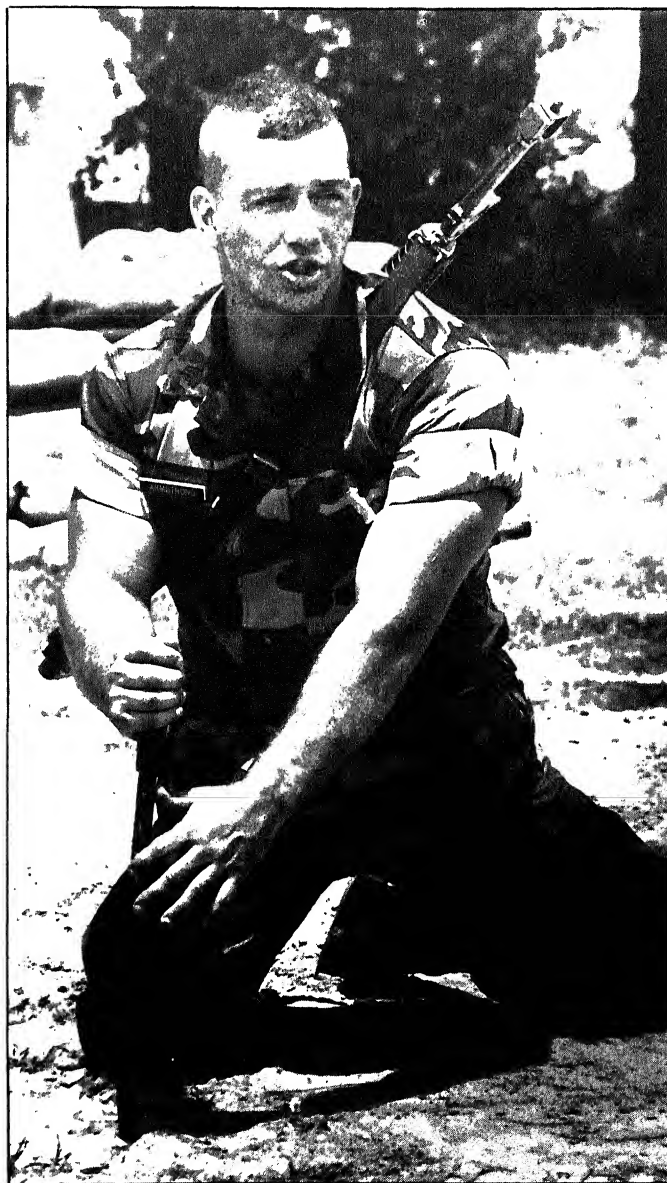
Two-Year Scholarship and College Programs: Students selected are those with advanced college standing who qualify for enrollment in the Advanced Course. They must first successfully complete the six-week course at the Naval Science Institute. Those enrolled in the Two-Year Scholarship and College Programs have the same privileges and obligations as those in the respective Four-Year Programs.

Information about the College Program is available from Navy/Marine Corps ROTC units. Students desiring information about the Scholarship Program should contact the nearest Marine Corps recruiting station, or write to the Commandant of the Marine Corps, (MRRO-6), Headquarters U.S. Marine Corps,

Washington, D.C. 20380.

Aviation programs

All male Marine Corps commissioned officers between the ages of 20 and 27½ are eligible to apply for pilot or naval flight officer training. Pilot training begins with 12 to 18 months at the Naval Air Training Command, Pensacola, Fla., followed by an assignment to one of the many Marine Corps aircraft squadrons (jet fighter, jet attack, helicopter or multi-engine transports). Flight officers are also trained at the Naval Air Training Command in Pensacola, studying for approximately eight months before assignment to one of the Marine Corps aircraft squadrons. Each assignment requires a four-and-a-half year commitment after designation as an aviator.



Education opportunities

Individuals who possess a higher education improve their career opportunities. The Marine Corps benefits too, in terms of greater efficiency and improved readiness.

Marines, regardless of rank or duty station, are encouraged to further their education. The Marine Corps supports the educational goal of every enlisted Marine having at least a high school education and every officer a college degree.

Thus, the Marine Corps offers off-duty education programs as basic as completing a high school education, or as complex as earning a doctorate degree.

To help defray the cost of advanced education, the Marine Corps will pay up to 75 percent of tuition costs. Tuition assistance may be used for courses leading toward a baccalaureate or higher degree, taken at any regionally accredited college or university. In addition, the Marine Corps funds 100 percent of high school completion programs. To assist Marines in realizing their educational goals, each major command has an education officer trained to help Marines enroll in education programs and apply for tuition assistance.

Defense Activity for Non-Traditional Education Support (DANTES): DANTES is an educational support service for the voluntary education programs of the military services. They provide College Level Examination Program (CLEP) and DANTES Subject Standardized Tests (DSST), which enable Marines to get college credit without attending classes. DANTES also provides GED testing for military members stationed overseas. Domestic GED testing is available through the civilian GED testing programs within the 50 states.

Enlisted degree programs

Two Marine Corps programs allow active duty enlisted members the opportunity to earn a bachelor's degree while attending school full-time. While attending college, they receive full pay and allowances, however, it is up to the individual to finance their education. Accepting either of the two programs requires an additional active duty obligation.

Marine Corps Enlisted Commissioning Education Program (MECEP): This program provides selected enlisted Marines, ages 20 to 26, with an opportunity to earn a baccalaureate degree by attending a college or university full-time. After obtaining a degree and completion of officer candidate school, MECEP graduates are commissioned second lieutenants.

Degree Completion Program for Staff Noncommissioned Officers: This program provides selected staff noncommissioned officers with the opportunity to

obtain a baccalaureate degree while attending a college or university full-time.

Eligibility is limited to Marines in the grades of staff sergeant through first sergeant/master sergeant. Each must have sufficient college credits to permit them to obtain a degree within an 18-month period.

Officer degree programs

In addition to tuition assistance, the Marine Corps offers eligible officers four programs through which to receive degrees while attending full-time college. While attending college, they receive full pay and allowances. However, in some of the programs officers must finance their own educations. Accepting any of the programs requires an additional active duty obligation.

Advanced Degree Program: This program is available to officers in the grades of first lieutenant through lieutenant colonel. The applicant must be able to complete the requirements for a postgraduate degree within an 18-month period.

College Degree Program: Participation in this program is limited to officers in the grade of warrant officer through lieutenant colonel who have sufficient credits to permit them to obtain baccalaureate degrees within an 18-month period.

Funded Legal Education Program: This program provides selected officers with the opportunity to earn the degree of bachelor of laws or juris doctor through full-time, funded study.

The program is available to active duty officers with a college degree, serving in the grades of second lieutenant through captain. The officer must have two to six years of active service and be able to complete the law degree requirements within a 36-month period.

Special Education Program: The Special Education Program provides selected officers with the opportunity to receive advanced training as full-time students. This training may lead to a postgraduate degree in special disciplines.

To be eligible, the officer must have a career status in the grade of first lieutenant through lieutenant colonel. Other eligibility requirements vary depending on the particular discipline chosen.

Reserves

Qualified men and women, 17 to 28 years of age, may enlist in the Marine Corps Reserve. Reserve enlistees attend the same boot camp and advanced training as Marines in the regular component. The length of active duty training varies depending on the particular job skill selected. To qualify for a special assignment or skill qualification, additional active duty for training may be requested.

Before attending recruit training, a limited number of high school seniors, who will graduate within six months, may attend weekend drill for full pay.

First time enlistment in certain occupational fields

or selected units entitles qualified Marine Corps reservists to enlistment bonuses of up to \$2,000 and monetary educational assistance up to \$4,000. Those enlisting for six years of active Reserve duty will receive educational assistance under the provisions of the Montgomery GI Bill.

Depending upon the training program selected by the reservist, initial active duty for training, including boot camp, will last from four to 12 months.

Split training, especially tailored for the reservist going to college or vocational school, is also available. Under this program, recruit training is taken in one

summer period and occupational specialty training the following summer.

Ultimately, Marine reservists will serve as members of hometown units. Reservists participate in drills one weekend a month and attend two weeks of active duty training annually, normally in the summer, at a major Marine Corps installation, other service installation, or as part of joint exercises on foreign soil.

Reenlistment and affiliation bonuses are offered to prior service personnel who have between three and nine years of total military service.

Marine occupations

CAREER FIELDS ARE LISTED ALPHABETICALLY, BEGINNING WITH THOSE COMBAT-RELATED GROUPS CLOSED TO WOMEN (INDICATED BY "C")

Career Fields	Duties & Responsibilities	Qualifications	Examples of Civilian Jobs
Field Artillery (C)	Maintains heavy mortars, 175mm, 155mm, 8-inch and 105mm howitzers; and self-propelled 175mm, 8-inch and 105mm howitzers.	Mathematical reasoning, mechanical aptitude, good vision and stamina; mechanics, electricity, meteorology and mathematics.	Surveyor, geodetic computer, meteorologist, radio operator, recording engineer and ordnance inspector.
Infantry (C)	Performs as rifleman, machine gunner, or grenadier; infantry unit leader, supervises training and operations of infantry units.	Verbal and mathematical reasoning, good vision and stamina; general mathematics, mechanical drafting, geography and mechanical drawing.	Firearms assembler, gunsmith, policeman, immigration inspector and plant security policeman.
Tank and Amphibian Tractor (C)	Performs as driver, gunner and loader in tanks, armored amphibious tractors.	Mechanical ability and stamina; auto mechanics, machine shop, electricity and mechanical drawing.	Automotive mechanic, bulldozer operator or repairman, caterpillar repairman, armament machinist-mechanic and gunsmith assistant.
Aircraft Maintenance	Performs the mechanical functions of maintenance, repair and modification of Marine air and ground support equipment.	Mechanical or electrical aptitude with manual dexterity; shop mathematics desirable.	Aircraft mechanic, electrician or hydraulics specialist, aviation machinist, sheet metal worker, aircraft instrument maker, repairer.
Airfield Services	Maintains aircraft log books, publications and flight operations records; prepares reports and schedules; installs and repairs aircraft launching and recovery equipment.	Typing, geography and mechanical drawing useful.	Airplane dispatch clerk, flight dispatcher, timekeeper and airport crash truck driver.
Air Traffic Control and Enlisted Flight Crews/ Air Support/Anti-Air Warfare	Operates airfield control tower and radio-radar air traffic control systems; serves as navigator, radio and radar operator, and intercept controller anti-air warfare missile batteryman.	Clear speaking voice, good hearing and better than average eyesight; speech, mathematics and electricity; and experience as a ham radio operator helpful.	Airport control tower, or flight radio operator, navigator, instrument-landing truck operator, radio or television studio engineer.
Ammunition and Explosives Ordnance Disposal	Inspects, issues and supervises storage of ammunition and explosives; locates, disarms, detonates or salvages unexploded bombs.	Mechanics, general science, and chemistry useful.	Firearms and ammunition proof director, ordnance technician (government), powder and explosives inspector.

Career Fields	Duties & Responsibilities	Qualifications	Examples of Civilian Jobs
Auditing, Finance and Accounting	Prepares and audits personnel pay records, processes public vouchers and administers and audits unit fiscal accounts.	Computational work and attention to detail; typing, bookkeeping, office machines and mathematics useful.	Payroll or cost clerk, bookkeeper, cashier, bank teller, accounting and audit clerk and accountant.
Aviation Ordnance	Maintains and repairs aircraft armament systems, gun pods, machine guns, bomb racks and rocket/missile launcher equipment; assembles and loads bombs, rockets, guns and missiles; handles and stores aviation-type munitions.	Electricity, hydraulics and mechanics shop courses useful.	Firearms assembler, gunsmith, armament mechanic and aircraft accessories repairer.
Avionics	Installs and repairs aircraft electrical, communications/navigation and fire control equipment and air-launched guided missiles; serves as electrician and instrument repairman. Repairs and calibrates related test equipment.	Mathematics and shop courses in electricity, hydraulics and electronics useful.	Radio and television or electrical instrument repairer, communications, electrical or electronics engineer and radio operator.
Data/Communications Maintenance	Installs, inspects and repairs telephone, teletype and cryptographic equipment and cables, calibrates precision electronic, mechanical, dimensional and optical test instruments.	Mathematics, electricity and blueprint reading courses helpful.	Telephone installer and trouble shooter, radio repairer, cable splicer, and office machine service person.
Data Systems	Operates and programs data processing equipment.	Clerical aptitude, manual dexterity and eye-hand coordination, mathematics, accounting and English useful.	Computer operator, programmer and data control coordinator.
Drafting, Surveying and Mapping	Makes architectural and mechanical drawings, prepares military maps, makes topographic maps, creates or copies articles or illustrative materials.	Mathematics, mechanical drawing and drafting, geography and commercial art helpful.	Architectural or mechanical drafting, surveyor or cartographer, geodetic computer, illustrator and commercial artist.
Electronics Maintenance	Installs, tests and repairs air-search radar, radio, radio relay, missile fire control and guidance systems.	Electronics, mathematics, electricity, and blueprint reading useful.	Radio and television repair, radio engineer, electrical instrument repairer, recording communications, and electrical engineer.
Engineer/Construction Equipment and Shore Party	Performs metal-working, operation and maintenance of fuel storage area, heavy engineering and pioneer equipment, construction and repair of military facilities.	Automotive mechanics, sheet metal working, machine shop, carpentry and mechanical drafting useful.	Sheet metal worker, engineering equipment mechanic, carpenter, road machinery operator, rigger and construction superintendent.
Food Service	Performs as cook, baker or meat cutter.	Hygiene, biology, chemistry, home economics and bookkeeping courses useful.	Cook, chef, baker, meat cutter or butcher, caterer, executive chef, dietician and restaurant manager.

Career Fields	Duties & Responsibilities	Qualifications	Examples of Civilian Jobs
Intelligence	Collects, records, evaluates and interprets information, makes detailed study of aerial photographs, conducts interrogations in foreign languages, translates written material and interprets conversations.	Geography, history, government, economics, English, foreign languages, typing, mechanical drafting and mathematics beneficial.	Investigator, research worker, intelligence analyst (government), map drafter, cartographic aide and records analyst.
Legal Services	Prepares legal documents, operates stenotype machines.	Manual dexterity; English.	Law clerk, court reporter, chief clerk and stenotype operator.
Logistics	Performs administrative duties involving the supply, quartering, movement and transport of Marine units by land, sea and air.	Clerical aptitude, knowledge of verbal and math reasoning; operate office machines and read maps.	Inventory or shipping clerk, pier superintendent, stock control clerk or supervisor and warehouse manager.
Marine Corps Exchange	Keeps and audits books and financial records, performs sales and merchandise stock control duties.	Typing, bookkeeping, business arithmetic, office machines and accounting useful.	Salesman, stock control supervisor, buyer, bookkeeper, accounting clerk, accountant and auditor.
Military Police and Corrections	Enforces military orders, guards military and war prisoners and controls traffic.	Sociology and athletics helpful.	Policeman, ballistics expert and investigator.
Motor Transport	Performs auto mechanics and body repair, motor vehicle and amphibian truck operation.	Automotive mechanics, machine shop, electricity and blueprint reading useful.	Mechanic or automobile body, electrical systems repairer, truck driver, motor vehicle dispatcher, and motor transport.
Musician	Performs in Marine Corps Band, unit bands, and drum and bugle corps; repairs musical instruments.	Music experience as a member of a high school band or orchestra.	Musician, music librarian, music teacher, bandmaster, orchestra or music director and musical instrument repairer.
Nuclear, Biological and Chemical	Performs routine duties incident to applying detection, emergency and decontamination measures to gassed or radioactive areas. Inspects and performs preventive maintenance on chemical warfare protection equipment.	Must not have any known hypersensitivity to the wearing of protective clothing; be emotionally stable; biology and chemistry background beneficial.	Laboratory assistant (nuclear, biological or chemical), exterminator, decontaminator.
Operational Communications	Lays communication wire; installs and operates radio, radio telegraph and radio relay equipment; encodes and decodes messages.	Mathematics, typing, electricity and electronics useful.	Radio operator, telephone lineperson, radio broadcasting traffic manager and communications engineer.
Ordnance	Inspects, maintains and repairs infantry, artillery, and anti-aircraft weapons; fire control optical instruments; operates machine tool or modifies metal parts.	Mathematics, mechanics, machine shop and blueprint reading, welding and heat treatment of metal and electricity.	Armament mechanic, gunsmith, time-recording equipment service person, electrician, optical instrument inspector and electrical engineer.

Enlistments

The Navy accepts applications from persons 17 to 34 years of age with enlistments of three, four, five or six years, depending upon which programs the applicant is qualified for and selects. Currently, there are more than 80 job skills open to men and women in the Navy. Most Navy enlistees receive job training after basic recruit training at one of the Navy's many schools.

Civilian education is extremely valuable to the Navy enlistee, so it pays to stay in school and graduate. A high school diploma may qualify a young person for one of the Navy's most advanced training programs in either electronics or nuclear propulsion. Vocational school training or college credits may lead to enlistment in an advanced pay grade of E-2 or E-3.

Certain members of the Naval Sea Cadets, Navy Junior ROTC and those in the "Enlist a Buddy" program may be enlisted in an advanced pay grade.

Navy applicants may enlist and delay reporting for active duty for up to 12 months, depending on the program for which they have contracted. Also, there is a program that permits friends to undergo recruit training and/or be assigned to their first duty station together.

Recruit training

The Navy currently provides eight weeks and three days of recruit training with a full schedule of military and technical subjects. Male recruits are trained at Great Lakes, Ill.; San Diego, Calif.; or Orlando, Fla. All women recruits are trained at Orlando. About one-third of the course is devoted to seamanship, survival-at-sea techniques, ship structures and firefighting instruction.

Upon completion of basic training, seamen proceed to Class "A" schools, or are ordered to the Fleet for duty and on-the-job training via a four-week apprenticeship course designed to enhance basic technical skills learned in recruit training. Some recruits are promoted meritoriously to E-2 upon completion of basic training.

Advancement

A Navy seaman recruit (E-1) is advanced to seaman apprentice (E-2) upon completion of nine months active duty, with the commanding officer's recommendation.

Eligibility for advancement to seaman (E-3) is based on requirements for adequate time in grade, demonstration of military and professional qualifications, passing examinations, and recommendation by the commanding officer. Advancement to pay grades E-4 through E-9 are based on Navy-wide vacancies within each career field. Candidates for advancement must meet certain minimum requirements, be recommended for advancement by their commanding officer and compete on Navy-wide examinations. Advancement to the more senior pay grades (E-7 to E-9) involves a selection board to determine who are the best qualified individuals. Some of the important factors considered for advancement are demonstrated technical knowledge of career field, performance on the job, experience as measured by time in service and time in rate and awards or special qualifications.

Commissioning programs

U.S. Naval Academy

The U.S. Naval Academy at Annapolis, Md., offers four years of college education leading to a bachelor of science degree. Midshipmen earn a commission in the Navy or Marine Corps upon graduation.

Competition to enter the academy is fierce. Candidates should begin their quest to enter the academy in the spring of their junior year in high school.

More information on admission to the academy can be found in the General Section of this magazine under Service Academies.

U.S. Naval Academy

Preparatory School

The U.S. Naval Academy Preparatory School (NAPS) located in Newport, R.I., accepts qualified civilian applicants and applicants from the Regular and Reserve components of the Navy and Marine Corps.

The Naval Academy Admissions Board selects all students for NAPS, choosing from among the best-qualified military and civilian candidates who were not selected for direct appointments to the Naval Academy.

Selection is based on the "whole person" concept evaluating overall abilities and potential for a future career as a naval officer.

Information can be obtained from the Director of Candidate Guidance, U.S. Naval Academy, Annapolis, Md. 21402-5018.

training. BOOST is available to currently enlisted Navy personnel, as well as to qualified civilian applicants who may enlist in the Navy with BOOST guaranteed in the enlistment contracts. If not selected for either an NROTC scholarship or appointment to the Naval Academy, BOOST students fulfill their service obligation to the Navy in enlisted ranks.

Officer Candidate School

Broadened Opportunity for Officer Selection and Training

BOOST, an acronym for Broadened Opportunity for Officer Selection and Training, offers enlisted men and women the opportunity to receive up to 12 months of extensive academic preparation in order to be competitive for selection to the Naval Academy and NROTC scholarship programs.

BOOST participants attend school in San Diego, Calif., upon successful completion of basic military

training. Qualified graduates of regionally accredited colleges receive 16 weeks of basic naval science and indoctrination at Newport, R.I. Successful candidates are commissioned as ensigns in the Naval Reserve and serve on active duty as unrestricted line, restricted line or staff corps officers. Age limits at commissioning are 19 to 26½ for nuclear propulsion programs; 19 to 29 for unrestricted line and supply corps officers; and 19 to 34 for restricted line and civil engineer corps officers. Active duty obligation is five years for nuclear-trained officers and four years for all others. More information may be obtained by calling toll free 1-800-327-NAVY.

Reserve Officers' Training Corps

Navy ROTC at more than 65 colleges and universities across the country offers commissions in the Navy to college students who complete either two, three or four years of a naval science study on campus.

The two types of programs are called the College Program and the Scholarship Program. The primary objective of these programs is to train officer candidates for eventual appointment in the unrestricted line. In addition to students already enrolled in college programs, qualified enlisted personnel on active duty are eligible to apply for Navy ROTC Scholarship Programs.

Four-Year Scholarship Program: Students are selected from national competition and are appointed Midshipmen, U.S. Naval Reserve. During this period of college, the Navy pays for tuition, fees and textbooks, and provides uniforms and a subsistence allowance of \$100 per month.

Four-Year College Program: Students are selected from among those applying for enrollment at each NROTC unit. During the first two years in the basic course, students have the status of civilians who have entered into a contract with the Navy. The Navy pays for required uniforms and naval science text-

books. Upon enrollment in the Advanced Course, College Program students enlist in the Naval Reserve. Upon graduation and completion of naval science requirements, students are commissioned as ensigns, U.S. Naval Reserve. The Navy provides uniforms, naval science textbooks, and \$100 a month subsistence allowance for a maximum of 20 months during the Advanced Course.

Three-, two- and one-year scholarships are available to College Program students applying to the Scholarship Program.

Two-Year College Program: Students selected are those with advanced college standing who qualify for enrollment in the Advanced Course. They must first successfully complete the six-week course at the Naval Science Institute. Those enrolled in the Two-Year College Program have the same privileges and obligations as those in the Four-Year College Program.

Information about the College Program is available from any of the on-campus NROTC units. Students desiring information about the Scholarship Program should contact the nearest Navy recruiting station, or write to the Commander, Navy Recruiting Command (Code 314), 4105 Wilson Boulevard, Arlington, Va. 22203-1991.

Aviation programs

Naval Aviation Officer Candidate School

Qualified graduates of regionally accredited colleges receive 14 weeks of rigorous academic, military and physical training at Pensacola, Fla.

Successful candidates are commissioned as ensigns in the Naval Reserve and serve on active duty as either unrestricted or restricted line officers.

Age limits at commissioning are 19 to 26 for naval aviators and naval flight officers; 19 to 29 for aviation maintenance duty officers; and 19 to 34 for special duty intelligence officers.

For more information, call 1-800-327-NAVY.

Pilot training

Naval pilot training is available to qualified, commissioned officers of the Aviation Officer Candidate School, U.S. Naval Academy, or NROTC. Primary flight training commences at either Milton, Fla., or Corpus Christi, Texas.

Upon completion of primary flight training, students receive orders for one of three aviation fields: jet, prop, or helo. After successful completion of advanced flight training, student pilots receive their wings and are designated as Naval Aviators.

Active duty obligation is seven years from date of designation. Total time in training is approximately 12 to 18 months.

Flight officer training

Naval Flight Officer training is available to qualified commissioned officers of the Aviation Officer Candidate School, U.S. Naval Academy, or NROTC.

After the completion of basic navigation training, they have the opportunity to specialize and receive advanced training in one of the following categories: Anti-Submarine Warfare, Electronic Countermeasures (ECM) Evaluation, Radar Interception or Bombardier/Navigator.

Active duty obligation is six years from date of designation as a naval flight officer.

Aeronautical engineering

Navy Aeronautical Engineering Duty Officer (Aviation Maintenance) is a program for those who desire to become specialists in the aviation maintenance management field.

To apply for this program one should be a senior in college or a graduate in a technical or management major, although those with other majors may be considered eligible. Selected candidates receive orders to Aviation Officer Candidate School at Pensacola, Fla.

Upon successful completion of 14 weeks of indoctrination training, they are commissioned as ensigns in the Naval Reserve. As commissioned officers, they undergo about 10 weeks of instruction at the Naval Aviation Schools Command, Pensacola, Fla.

Age limits are 19 to 29 at the time of commissioning with an obligated service of four years from the date of commissioning.

Aviation intelligence

Naval Aviation Officer Candidate-Special Duty Intelligence is a program for training as an intelligence special duty officer in a non-flying assignment.

Applications may be made during the senior year of college or after graduation. After 14 weeks of indoctrination, candidates are commissioned ensigns in the

Naval Reserve and report to the Navy and Marine Corps Intelligence Training Center, Dam Neck, Va., for approximately 20 weeks of training.

Candidates serve on active duty for four years from the date of commissioning. Age limits are 19 to 34 at the time of commissioning.

Education opportunities

Educational opportunities in the Navy are often singled out by officers and enlisted persons as reasons for deciding to join.

The Navy's commitment to provide quality education to its members is carried out through Navy Campus. This unique educational program enables Navy people to pursue all levels of education and training, wherever they are stationed. Through Navy Campus, they earn the same academic degrees and vocational certificates earned by students at civilian institutions.

Using both on-duty and off-duty study for credit purposes, Navy Campus provides a comprehensive package of educational benefits to Navy people. They may enroll in any combination of programs and constantly accumulate credits toward a college degree or vocational certificate of their choice, whether they are stationed on land or on board a ship or submarine.

To help defray the high cost of advanced education, the Navy pays up to 75 percent of tuition costs. Tuition assistance may be used for courses taken at accredited colleges and universities, vocational/technical schools or independent study courses. In most cases, the Navy funds 100 percent of high school completion programs.

Certificate/Degree Program (C/D): Navy Campus education specialists help Navy students enroll in civilian colleges affiliated with the Navy under the Certificate/Degree Program.

All of the two- and four-year colleges in the C/D Program waive residency requirements, allowing Navy persons to graduate from an institution without ever having to reside or attend classes there. However, students must meet all of the institution's degree requirements.

The C/D colleges have agreed to allow Navy men and women 10 years to complete their program, whether or not they remain in the Navy for the entire study period.

With prior approval from the college in which enrolled, Navy students can take courses at any accredited institution and the credits will be forwarded and applied toward graduation.

Most important for mobile Navy people, the C/D college in which they enroll will store all their credits in one location.

Servicemembers Opportunity College (SOC): Like the Navy Campus C/D Program, SOC is designed to help men and women on active duty earn a degree or certificate despite transfers to different locations. More than 400 two- and four-year colleges and universities collectively confer the full range of associate, baccalaureate and graduate degrees.

The SOC program is sponsored by the American Association of State Colleges and Universities, the American Association of Community and Junior Colleges, and managed by DANTES (Defense Activity for Non-Traditional Education Support).

Navy persons are not limited to pursuing their education at C/D or SOC institutions. They may receive Navy Campus assistance and tuition aid for degrees and certificates at any approved civilian institution of higher education.

Enlisted degree programs

In addition to the C/D and SOC programs, the Navy offers three programs for enlisted persons seeking a degree.

PACE Program: The PACE (Program for Afloat College Education) Program is a low-tuition program offering college courses to crewmembers serving aboard ships at sea. The majority of the courses are at the freshman and sophomore level and are taught by college professors traveling with the Navy. In addition to PACE, DANTES offers College Level Entrance Program (CLEP) exams aboard ship.

Through a combination of credit for Navy training, CLEP exams and PACE study, Navy persons may earn an associate degree in less than three years, regardless of how frequently they are at sea.

Two programs provide active duty enlisted persons the opportunity to earn an associate or bachelor degree while attending school full-time. While attending college, they receive full Navy pay and allowances; however, it is up to the individual to finance their own education. Accepting either of the programs requires an additional active duty commitment.

The Enlisted Education Advancement Program (EEAP) enables selected active duty sailors to attend junior or community colleges and earn associate of arts or science degrees in 24 months of full-time study.

The Enlisted Commissioning Program (ECP) enables outstanding enlisted men and women with previous college credit to complete their baccalaureate degrees in 24 months or less at 10 designated colleges and universities, and subsequently earn Navy commissions through Officer Candidate School.

Medical programs

The Navy offers financial assistance to students in medical school in return for specified periods of military service. Medical students who qualify receive tuition, books, fees and a monthly stipend. The obligated service is a minimum of three years.

Naval Postgraduate School

In addition to the services provided by Navy Campus, Naval officers are eligible to attend the Naval Postgraduate School at Monterey, Calif., an institution noted for its outstanding faculty of scientists and educators.

After four years of active duty commissioned service, qualified Navy officers may be invited to Monterey to

study advanced engineering, technical and managerial disciplines that are particularly relevant to the Navy. They may also earn advanced degrees in programs accepted by leading accrediting and professional associations. While attending the Naval Postgraduate School, officers continue to receive full Navy pay, benefits and allowances.

Naval Reserve

Men and women, 17 to 34 years old, may enlist in the TAR (Training and Administration of Reserves) Enlistment Program, the Active Mariner Program or the Sea/Air Mariner Program (SAM), each of which requires an eight-year enlistment.

The TAR program requires a four-year active duty assignment. Members not reenlisting may be assigned to the Individual Ready Reserve or Ready Reserve for the rest of their enlistment. The TAR program offers many of the same advantages of the regular Navy but has many more geographic assignment options.

The Active Mariner program requires a three-year active duty assignment with a follow-on three-year Selected Reserve drilling obligation at a local Naval Reserve site.

The SAM program requires four to 10 months on active duty for training and then a return to a designated local reserve unit for the remainder of the enlistment.

All three programs offer a delay time in reporting for active duty for training of up to one year.

Navy occupations

Career Fields	Duties & Responsibilities	Qualifications	Examples of Civilian Jobs
CAREER FIELDS ARE LISTED ALPHABETICALLY, BEGINNING WITH THOSE COMBAT-RELATED GROUPS CLOSED TO WOMEN (INDICATED BY "C").			
Aviation Anti-submarine Warfare Operator (C)	Performs general flight crew duties; operates ASW sensor systems; performs diagnostic function to effect fault, isolation and optimize system performance; operates tactical support center systems.	Above average learning ability. High degree of electrical and mechanical aptitude. Must pass flight physical and be able to swim. Courses in algebra, trigonometry, physics, electricity.	Radar technician, radio operator, audio technician, oil well sounding device operator.

Career Fields	Duties & Responsibilities	Qualifications	Examples of Civilian Jobs
Aviation Fire Control Technician (C)	Maintains and inspects aircraft weapons systems, weapon-control radar, computers, computer sights, gyroscopes, related equipment; air-launched guided missile equipment.	Superior electronic, electrical and mechanical aptitude. Training in repair shops or vocational schools and in mathematics.	Instrument person, aircraft electrician, electronics technician, radar computer repairer, TV repairer.
Electronic Warfare Technician (C)	Operates and maintains electronic equipment used for detection, analysis and identification of emissions in electromagnetic spectrum as well as deception and jamming of enemy electronic sensors.	Good arithmetic and record-keeping ability. Competence with tools, equipment and machines.	Electronics intelligence operations specialists, electronics mechanic.
Fire Control Technician (C)	Operates, tests, maintains and repairs weapons control systems and telemetering equipment used to compute and resolve factors which influence accuracy of naval guns and missiles.	Perform fine, detailed work. Extensive training in mathematics, electronics, electricity and mechanics.	Radar or electronics technician, test range tracker, instrument repairer, electrician.
Gas Turbine Systems Technician (C)	Operates gas turbine engines, main propulsion machinery and related electrical and electronic equipment.	Electrical/electronics repair, blueprint reading, mathematics and physics.	Electronics technician, gas turbine mechanic, power plant operator.
Gunner's Mate (C)	Operates and performs maintenance on guided missile launching systems, rocket launchers, guns, gun mounts; inspects/repairs electrical, electronic, pneumatic, mechanical and hydraulic systems.	Prolonged attention and mental alertness, ability to perform detailed work. High aptitude for electrical and mechanical work. Arithmetic, shop math, electricity, electronics, physics, machine shop, welding, mechanical drawing and shopwork.	Electronics mechanic, missile facilities repairer, gunsmith, rocket engine component mechanic, marksmanship instructor.
Missile Technician (C)	Maintains fleet ballistic missiles and support equipment; tests, adjusts, calibrates, operates, repairs support equipment; handles/stows missiles.	High mechanical aptitude and manual dexterity, electricity, electronics, mathematics, and physics.	Rocket engine component mechanic, ordnance artificer, electronics mechanic.
Sonar Technician (C)	Operates electronic underwater detection and attack apparatus, obtains and interprets information for tactical purposes, maintains and repairs electronic underwater sound detection equipment.	Normal hearing and clear speaking voice. Algebra, geometry, physics, electricity and shopwork desirable. Experience as amateur radio operator.	Oil well sounding device operator, radio operator, inspector of electronic assemblies, electronic technician, electrical repairer, fire control mechanic.
Aerographer's Mate	Collects, records, analyzes, meteorological and oceanographic data; enters on appropriate charts; forecasts from visual and instrumental weather observations; operates, programs and maintains computers.	Skills in mathematics, speaking, writing, record keeping and ability to perform repetitive work.	Weather observer, meteorologist, chart maker, oceanographer assistant, computer programmer.
Air Traffic Controller	Controls air traffic, operates radar air control ashore and afloat; uses radio, light signals; directs aircraft under visual flight and instrument flight conditions; assists in preparation of flight plans.	High degree of accuracy, precision, self-reliance and calmness under stress. Experience in radio broadcasting and good vision.	Control tower operator, radio-telephone operator, flight operations specialist and aircraft log clerk.

Career Fields	Duties & Responsibilities	Qualifications	Examples of Civilian Jobs
Aircrew Survival Equipmentman	Maintains and packs parachutes, survival equipment, flight and protective clothing, life jackets; tests and services pressure suits.	Must perform extremely careful and accurate work. General shop and sewing desirable. Experience in use and repair of sewing machines.	Parachute packer, inspector, repairer and tester; sailmaker.
Aviation Anti-submarine Warfare Technician	Performs a wide range of electronic shop operations; performs in-flight maintenance of airborne electronic systems; removes and installs units of anti-submarine warfare equipment; debriefs flight crews; reads and applies service diagrams; performs administrative duties.	Mathematical ability, manual dexterity, ability to do detailed work, a good memory, resourcefulness and curiosity.	Electronics mechanic.
Aviation Boatswain's Mate	Handles aircraft and cargo on carriers; operates, maintains, repairs aviation fueling, defueling, inert gas systems; maintains catapults, arresting gear.	Must have physical strength and manual dexterity. Ability to do repetitive tasks and be a good team worker.	Machinery erector, crane operator, airport service person, gasoline distributor. Fire fighter-crash fire and rescue.
Aviation Electrician's Mate	Maintains, adjusts, repairs aircraft electrical and instrument systems, plus power generating, aircraft controls.	High degree of manual dexterity. Accurate in record keeping. Ability to perform repetitive tasks.	Aircraft electrician, airframe and power plants mechanic.
Aviation Electronics Technician	Tests, maintains, repairs aviation electronics equipment including navigation, identification, detection, reconnaissance, special purpose equipment; operates warfare equipment.	High degree of aptitude for electrical, mechanical work and accurate bookkeeping.	Aircraft electrician, radio mechanic, electrical repairer, instrument repairer, electronics technician.
Aviation Machinist's Mate	Inspects, maintains power plants and related systems and equipment, prepares aircraft for flight, conducts periodic aircraft inspections.	Good learning ability and mechanical aptitude. Machine shop, automobile or aircraft engine work, algebra and geometry.	Airport service person, aircraft engine test mechanic, small appliance repairer.
Aviation Maintenance Administration	Management and clerical duties in aircraft maintenance offices, plans and schedules maintenance workload, prepares reports and correspondence and analyzes trends of aircraft system and component failures.	Accurate and detailed work, interest in the aviation maintenance field. Filing and typing.	Shipping, parts, supply room or maintenance clerk, office manager, aircraft log clerk, maintenance data analyst.
Aviation Ordnanceman	Loads bombs, torpedoes, rockets, guided missiles; maintains, repairs, inspects aircraft armament, aviation ordnance equipment; performs inflight operation and troubleshooting of ordnance systems.	Normal vision and good mechanical aptitude. Algebra, physics and electricity and experience in electrical or mechanical repair.	Armament inspector, ordnance supervisor, gunsmith.
Aviation Storekeeper	Receives, stores, issues aviation supplies, spare parts, technical aviation items; conducts inventories.	Ability to keep accurate records, work well with other people and good typing is helpful.	Accountant, bookkeeper, parts clerk, stock-control clerk and storekeeper.

Career Fields	Duties & Responsibilities	Qualifications	Examples of Civilian Jobs
Aviation Structural Mechanic	Maintains and repairs aircraft, airframe, structural components, hydraulic controls, utility systems, egress systems.	High degree of mechanical aptitude. Metal shop, woodworking, algebra, plane geometry, physics; experience in automobile body work.	Welder, sheet metal repairer, hydraulics technician, radiographer and aircraft plumbing systems mechanic.
Aviation Support Equipment Technician, Electrical	Operates, maintains and repairs automotive electrical systems in aircraft service equipment including generators, lighting ignition and air conditioning systems.	High mechanical aptitude, physical strength, manual dexterity and ability to work well with others.	Automobile mechanic for electrical repair, aviation support equipment repair.
Aviation Support Equipment Technician, Mechanical	Services, tests and performs intermediate level maintenance and repair of gasoline and diesel engines, gas turbine compressor units, power generating equipment, liquid and gaseous oxygen and nitrogen servicing equipment, automotive electrical and air conditioning systems.	High mechanical aptitude, physical strength, machine shop experience, and ability to work well with others.	Diesel or gasoline engine, air conditioning, ignition mechanic, hydraulics repairer, auto mechanic.
Boiler Technician	Operates boilers and fireroom machinery; transfers, tests and takes inventories of fuel and water, maintains boilers, pumps, associated machinery.	Strong interest in mechanical work. Shop courses and practical mathematics.	Marine firefighter, boiler inspector, boiler maker, stationary engineer, boiler or heating plant technician.
Boatswain's Mate	Performs seamanship tasks, operates small boats, stores cargo, handles ropes and lines, directs work of deck force personnel.	Must be physically strong. Practical math desirable; algebra, geometry and physics.	Motorboat operator, pier superintendent, able seaman, canvas worker, rigger, cargo wincher, mate, longshore worker, quartermaster.
Builder	Constructs, maintains, repairs wood, concrete, masonry structures; erects and repairs waterfront structures.	High mechanical aptitude. Carpentry and ship mathematics desirable. Experience with hand and power tools valuable.	Plasterer, roofer, mason, painter, construction worker, carpenter, estimator.
Construction Electrician	Installs, operates, maintains, repairs electrical generating and distribution systems, transformers, switchboards, motors, controllers.	Interest in mechanical and electrical work. Electricity, shop mathematics and physics helpful, ability to work aloft.	Powerhouse or construction electrician, electrical and telephone repairer, power plant operator, diesel plant operator.
Construction Mechanic	Maintains, repairs and overhauls automotive and heavy construction equipment.	High mechanical aptitude. Electrical or machine shop, shop mathematics and physics helpful. Machinist or auto mechanic work.	Automotive or diesel engine mechanic, construction equipment mechanic, transmission mechanic, automotive electrician, automobile body repairer.
Cryptologic Technician	All prospective Cryptologic Technicians (CTs) must have a personal background that will facilitate clearance for special security access; above average speaking and writing ability; good memory; resourcefulness; curiosity; adaptability to detailed work; aptitude for math; record-keeping ability; ability to work well with others and manual dexterity.		
Cryptologic Technician A (Administrative)	Types messages and correspondence; files; handles classified material; maintains personnel records, carries classified material between points worldwide.	Exceptionally good character, speaking and writing ability.	Clerk typist, office manager, intelligence specialist, secretary, administrative assistant, postal clerk, shipping clerk and key-punch operator.

Career Fields	Duties & Responsibilities	Qualifications	Examples of Civilian Jobs
Cryptologic Technician I (Interpretive)	Operates technical communications systems equipment; prepares data and reports involving communications material; performs temporary duty aboard submarines and surface units.	Foreign language aptitude, exceptionally good character, above average speaking and writing ability.	Interpreter, translator.
Cryptologic Technician M (Maintenance)	Performs preventive and corrective maintenance on solid-state and electro-mechanical equipment which requires use of test equipment, hand tools and technical publications; repairs and calibrates wide variety of precision electronic test equipment.	Ability to comprehend advanced electronic theory.	Automatic equipment technician; central office repairer, radio mechanic, electrician, store clerk, communication equipment installer/repairer.
Cryptologic Technician O (Communications)	Prepares messages utilizing teletypewriter equipment on computer terminals; controls and operates communication equipment including satellite systems, terminals, patch panels and communication security devices.	Exceptionally good character, typing ability, good memory, resourcefulness, curiosity, manual dexterity, aptitude for figures.	Cryptographic machine operator, telegraphic-teletypewriter operator.
Cryptologic Technician R/T (Collection/Technical)	Variety of duties associated with operation of computer assisted and Morse communications systems; operates radio-receiving, direction-finding equipment and maintains documents which are predominantly classified.	Exceptionally good character, good memory, speaking and writing ability, desire and ability to work as part of a team.	Computer operator; radio officer, computer systems analyst, electronic intelligence operations specialist, intelligence specialist and computer programmer.
Damage Controlman	Operates, maintains and repairs firefighting equipment, damage control equipment and chemical, biological and radiological defense equipment.	Good vision and color perception, manual dexterity, a good memory and resourcefulness.	Firefighter, plumber, welder, shipfitter and steel metal worker.
Data Processing Technician	Operates data processing equipment including sorters, collators, reproducers, tabulating printers and computers.	High clerical aptitude. Typing, bookkeeping and operating business machines desirable. Experience in mechanical work.	Keypunch operator, systems analyst, verifier and tabulating machine operator.
Data Systems Technician	Maintains electronic digital data systems and equipment; inspects, tests, calibrates, and repairs computers, tape units, digital display equipment, data link terminal sets and related equipment.	Possess high aptitude for detailed mechanical work. Radio, electricity, physics, and mathematics through calculus.	Electrical, electronic repairer or computer repairer, electronic and data systems technician.
Dental Technician	Assists dental officers in treatment of patients; performs preventive procedures, and various dental department administrative duties.	Hygiene, physiology and chemistry.	Dental technician, dental hygienist, X-ray technician, dentist's assistant, dental laboratory technician, medical records clerk.

Career Fields	Duties & Responsibilities	Qualifications	Examples of Civilian Jobs
Disbursing Clerk	Maintains military pay records; prepares payrolls and maintains related fiscal records and reports.	Typing, bookkeeping, accounting, business math and office practices.	Paymaster, cashier, statistical or audit clerk, bookkeeper, bookkeeping machine operator, cost accountant.
Electrician's Mate	Maintains power and lighting equipment, generators, motors, power distribution systems, other electrical equipment; rebuilds electrical equipment.	Aptitude for detailed mechanical work. Radio, electricity, physics, algebra, trigonometry and shop valuable.	Electrician, electric motor and electrical equipment repairer, power reactor operator, motion picture projectionist/repairer.
Electronics Technician	Maintains all electronic equipment used for communications, detection ranging, recognition and countermeasures.	Aptitude for detailed mechanical work. Radio, electricity, physics, algebra, trigonometry and shop valuable.	Electronics technician, radar and radio repairer, instrument and electronics mechanic, power reactor operator.
Engineering Aid	Performs tasks required in construction surveying and drafting. Makes and controls surveys, runs and closes traverses; conducts soil classification and compaction tests.	Algebra, geometry, trigonometry, mechanical drawing and drafting recommended. Experience in road construction useful.	Surveyor, plans drafter, soil analyst, construction inspector.
Engineman	Operates, maintains, repairs internal combustion engines, main propulsion machinery, refrigeration and assigned auxiliary equipment.	Clear speech, physical stamina and manual dexterity. Knowledge of arithmetic and internal combustion engine is desirable.	Diesel plant engine operator, diesel mechanic, automobile engine mechanic, marine engine machinist, stationary engineer and power plant operator.
Equipment Operator	Operates automotive and heavy construction equipment.	Good physical strength and normal color perception. Experience in construction work, auto or electrical shop.	Bulldozer operator, power shovel or motor grader operator; excavation foreman, truck driver, asphalt paving machine operator, blaster, well-drill operator.
Hospital Corpsman	Administers medicines, applies first aid, assists in operating room, nurses sick and injured.	Hygiene, biology, first aid, physiology, chemistry, typing and public speaking.	Practical nurse, medical or X-ray lab technician, nurse administrator, dispensing optician, surgical technician, respiratory therapist, physical therapist's assistant, emergency medical technician.
Hull Maintenance Technician	Fabricates, installs, repairs shipboard structures, plumbing and piping systems.	High mechanical aptitude. Sheet metal, foundry, pipe fitting, carpentry, mathematics, geometry and chemistry valuable.	Welder, plumber, shipfitter, blacksmith, metallurgical technician.
Illustrator Draftsman	Designs, sketches, does layout, letters signs, charts and training aids; operates visual presentation equipment; makes mathematical computations for layout and design illustrations.	Previous experience as draftsman, tracer or surveyor valuable. Art, mechanical drawing and blueprint reading valuable.	Structural draftsman, technical illustrator, specification writer, electrical draftsman, geodetic computer, graphic artist.

Career Fields	Duties & Responsibilities	Qualifications	Examples of Civilian Jobs
Instrumentman	Installs, services, repairs, adjusts and calibrates office machines, gauges, measuring devices and clocks.	Manual dexterity, ability to do detailed work and repetitive tasks, good memory, curiosity and arithmetic ability.	Office machine repairer, electrical instrument repairer, watch repairer and instrument mechanic.
Intelligence Specialist	Maintains/uses intelligence files; prepares maps, graphics, mosaics, charts; extracts intelligence information from aerial photos, prepares intelligence reports.	Processing, assimilating, interpreting and presenting data. Typing, filing, drafting, mathematics, geography and photography valuable.	Aerial photographer, intelligence clerk and intelligence specialist.
Interior Communications Electrician	Maintains, operates all interior communications systems, voice interior communications, alarms, ship's control, plotting, automated propulsion equipment.	High aptitude for electrical work. Electrical shop, practical and shop mathematics, experience in electrical/electronics work desirable.	Electronics or TV technician, TV camera operator, electrician, communications equipment repairer.
Journalist	Reports, edits, copyreads news; publishes information about service people and activities through newspapers, magazines, radio and television.	High degree of clerical aptitude. English, journalism, typing and writing experience helpful.	News editor, copyreader, script writer, reporter, photojournalist, rewrite or art layout person, radio & TV announcer, production manager.
Legalman (Must be E-6 or above to apply)	Provides administrative services, military justice, claims, administrative law, and legal assistance; serves as court reporter.	Aptitude for detail, ability to express self in writing and orally. Typing, shorthand, English and logic helpful. No speech or hearing difficulties.	Legal assistant, law and contract clerk, title examiner and court reporter, office manager.
Lithographer	Performs offset lithography and letterpress printing, copy preparation, camera work, assembling and stripping, platemaking, typesetting, presswork and binding.	Work with machinery and chemicals. Printing, physics, chemistry, English and shop mathematics valuable.	Lithographic and plate press operator, bookbinder, engraver, camera operator and photolithographer.
Machinery Repairer	Makes replacement parts and repairs or overhauls ship's engine auxiliary.	Experience in practical or shop mathematics, machine shop, electricity, mechanical drawing and foundry desirable.	Engine lathe operator, machinist tool clerk, bench machinist, turret and milling machine operator and tool maker.
Machinist's Mate	Operates, maintains and repairs ship's propulsion, auxiliary equipment and outside equipment such as steering, engine, refrigeration/air conditioning, laundry equipment.	Aptitude for mechanical work. Practical or shop mathematics, machine shop, electricity and physics valuable. Physical stamina and ability to work with others as a team.	Power plant operator, oxygen plant operator, marine mechanic, diesel mechanic, stationary engineer mechanic, and refrigeration mechanic.
Master-at-Arms (Must be E-5 or above to apply)	Performs investigations, apprehensions, crime prevention, preservation of evidence; performs duties of beach guard and shore patrol, crowd control and brig operations.	Experience in police, shore patrol or investigative work. Maturity, good vision and hearing. High school diploma or equivalent.	Police officer, guard, detective, investigator.
Mess Management	Orders, prepares and serves food. Manages billeting offices and personnel living spaces.	Ability in arithmetic, imagination, resourcefulness, good at detailed work and record keeping.	Baker, cook, butcher, night club manager, cake decorator, chef, restaurant manager.
Mineman	Tests, maintains and repairs mines, components and mine laying equipment.	Manual dexterity, mechanical inclination and ability for team work.	Electromechanical technician, ammunition inspector, electronics mechanic.

Career Fields	Duties & Responsibilities	Qualifications	Examples of Civilian Jobs
Molder	Operates foundries aboard ship and at shore stations; makes molds and cores, rigs flasks; casts ferrous, non-ferrous and alloy metals; sandblasts castings and pours bearings.	Foundry, machine shop, practical mathematics.	Foundry supervisor, furnace operator, melter, molder, core maker, heat treater, temperer.
Musician	Provides music for military ceremonies, religious services, concerts, parades, various recreational activities; plays one or more musical instruments.	Proficiency on standard band or orchestral instruments.	Music teacher, instrument musician, orchestra leader, music arranger, instrument repairer, music librarian, arranger.
Ocean Systems Technician	Operates special electronic equipment to interpret and document oceanographic data; operates related equipment such as tape recorders; interprets data; prepares and maintains visual displays of data; converts data into formats for statistical study.	Normal hearing, vision and color perception; above average learning ability; ability to perform detailed and repetitive work, to work harmoniously with others, and with numbers; and qualified for secret security clearance.	Computer-peripheral equipment operator or electronics mechanic.
Operations Specialist	Operates surveillance and search radar, electronic recognition and identification equipment, controlled approach devices and electronic aids to navigation; serves as plotter and status board keeper.	Prolonged attention and mental alertness. Physics, mathematics and ship courses in radio and electricity helpful. Experience in radio repair is valuable.	Radio operator (aircraft, ship, government service, radio broadcasting), radar equipment supervisor, control tower operator, air controller, computer equipment operator.
Opticalman	Maintains binoculars, sextants, optical gunsights, turret and marine periscopes.	Close, exact and painstaking detail work, physics, shop mathematics and machine shop helpful; experience in optical or camera manufacturing.	Lens grinder, jewelry stone cutter, tool inspector, optical maker, inspector, optical tooling specialist, camera repairer and locksmith.
Patternmaker	Makes wood, plaster, metal patterns, core boxes, flasks used by molders in Navy foundries.	Exacting, precise work; woodshop, foundry, mechanical drawing, shop and practical mathematics.	Template maker, industrial arts teacher, layout person, patternmaker, form builder.
Personnelman	Performs enlisted personnel administration duties in manpower utilization, maintains service records, personnel accounting, educational services, classifies personnel and jobs.	Ability to deal with people, typing, public speaking, office practices, personnel work and counseling helpful.	Office manager, personnel clerk counselor, clerk typist, employment typist, efficiency engineer.
Photographer's Mate	Operates, maintains and repairs cameras for ground and aerial photographic work.	Normal color perception; physics and chemistry desirable.	Photographer, camera repairer, aerial photographer, screen writer, photojournalist, film editor, developer, sound mixer.
Postal Clerk	Processes mail, sells stamps and money orders, maintains mail directories and handles correspondence concerning postal operations.	Bookkeeping, accounting, business math, typing and office practices.	Parcel post or mail clerk, mail room manager, stock clerk, cashier.
Quartermaster	Performs navigation of ships, steering, lookout supervision, ship control, bridge watch duties, visual communication and maintenance of navigational aids.	Good vision and hearing and ability to express oneself clearly in writing and speaking. Public speaking, grammar, geometry and physics helpful.	Barge, motorboat, yacht captain, quartermaster, harbor pilot aboard merchant ships.

Enlistments

Eight weeks of basic training are currently taken by men and women who enter the Coast Guard. They are trained at Cape May, N.J. In addition to courses common to all services, Coast Guard trainees study seamanship, ordnance, damage control and Coast Guard history and traditions.

After completion of basic training, personnel are assigned to a Coast Guard unit. Upon reporting to their first unit, personnel are encouraged to apply for a Class "A" school. Waiting periods will vary depending on the particular school. Personnel normally will not be assigned to school until they have been at a unit for six months and have advanced to pay grade E-3. Personnel not requesting school can be advanced through a program of on-the-job training.

Advancement

A Coast Guard seaman recruit (E-1) is promoted to seaman apprentice (E-2) upon completion of basic training.

Eligibility for promotion to seaman or fireman (E-3) is based on adequate time-in-grade (six months), demonstration of military and professional qualifications, recommendation of the commanding officer, and completion of correspondence courses.

To earn petty officer ratings (E-4 through E-9), an individual must, in addition to meeting the previously stated requirements, pass the Coast Guard-wide competitive examination for the rating; complete service schooling; or through on-the-job training.

Commissioning programs

Appointments to the Coast Guard Academy are made competitively on a nationwide basis. A nomination is not required. Qualified men and women may apply by writing to the Director of Admissions, U.S. Coast Guard Academy, New London, Conn. 06320.

Coast Guard

Officer Candidate School

The Coast Guard trains selected college graduates in skills necessary for commissioning at a 17-week Officer Candidate School in Yorktown, Va. Classes

convene several times a year. Applicants must be U.S. citizens and either graduates of an accredited college or university, or active duty Coast Guard enlisted personnel with 30 semester hours of college-level credits from an accredited college or university (CLEP test results are acceptable).

Duty assignments are made on the basis of the individual's educational background experience and expressed preferences, consistent with the needs of the Coast Guard. Age limits are 21 through 26 on a cutoff date established twice yearly. Prior active duty military personnel may exceed the age limit by the number of months of active duty not to exceed 60 months.

Direct commissioning programs

Graduates from a law school accredited by the American Bar Association may receive a commission as a lieutenant (junior grade) in the Coast Guard Reserve for a three-year active duty tour. Evidence of application to take a bar examination or actual admission to the bar must be submitted prior to commissioning. Within one year after being commissioned, the graduate must be admitted to the bar of a state or federal court.

The Coast Guard has a continuing need for marine safety officers. One important source is through its Maritime Academy Graduate Program, whereby qualified, selected graduates of state and federal maritime academies are commissioned as ensigns and lieutenants (junior grade) in the Coast Guard Reserve for a three-year active duty tour. Those who wish may, while on active duty, apply for integration into the active Coast Guard and, if accepted, continue to pursue a challenging and rewarding career. Also, licensed officers of the merchant marine may apply for a commission in the Coast Guard as a lieutenant (junior grade) or lieutenant. Selections are made dependent upon experience and type of license held.

Aviation programs

Coast Guard aviation training is available to selected graduates of Officer Candidate School or the Coast Guard Academy. Pilot trainees attend 14 months of basic and advanced flight training at naval air stations in Pensacola, Fla. and Milton, Fla. Applicants must not have reached their 28th birthday at the commencement of flight training.

The Coast Guard also commissions a limited number of prior service aviators. A selection board is convened annually. Those selected spend two weeks at the Coast Guard Reserve Training Center in Yorktown, Va., for Coast Guard orientation and then undergo any necessary transitional training (usually

minimal) at Aviation Training Center, Mobile, Ala., prior to reporting to their first duty station. They spend three years on active duty and, if accepted, may continue on active duty.

Medical programs

Public Health Service-Coast Guard: Students enrolled in an accredited medical or osteopathy school may receive \$600 per month, plus tuition and fees. Upon receipt of their degree, they serve with the U.S. Public Health Service (USPHS) on active duty with the Coast Guard or other USPHS agencies for one year for every year of subsidized training or a minimum of two years. To apply, contact the National Health Service Corps, Scholarship Programs, Center Bldg., Room 5-44, 3700 East-West Hwy., Hyattsville, Md. 20782.

Education programs

The Coast Guard sponsors a tuition assistance program of off-duty education within the limits of available funds. It is designed to broaden the technical and educational background of Coast Guard personnel and to assist in the attainment of personal education goals.

Active Coast Guard and Coast Guard Reserve personnel on active duty are eligible to participate in the program, which pays up to 100 percent of tuition fees.

Coast Guard Reserve

Qualified individuals may enter the Coast Guard Reserve through one of three programs.

Non-prior service people, 17 through 27 years old, enlist for eight years. This involves active duty for basic training and specialized schooling for enlistees without service-related skills.

A special program for students is also available. The initial active duty period is split between two summers. After initial active duty for training, reservists attend meetings one weekend every month and two weeks active duty annually for the remainder of the eight-year enlistment.

Men and women 26 through 35 years of age with a needed skill enlist for eight years and receive a petty officer rating. This involves two weeks of orientation at Yorktown, Va. Those enlisting with service-related skills may be given the pay grade E-4.

Prior service men and women up to age 42, who were E-4 and above, are eligible to enlist/reenlist. Those enlisting with prior service may be given rates corresponding to their civilian experience up to E-6.

After training or orientation, reservists return to their local units and serve one weekend a month plus two weeks annual active duty.

Coast Guard occupations

Career Fields	Duties & Responsibilities	Qualifications	Examples of Civilian Jobs
Aviation Electrician's Mate	Maintains, adjusts, repairs aircraft electrical and instrument systems, plus power generating, lighting, electrical components of aircraft controls.	Algebra, trigonometry, physics and shop experience in electrical work.	Aircraft electrician, electrician, substation operator, instrument inspector, electrical consultant.
Aviation Electronics Technician	Tests, maintains, repairs aviation electronics equipment including navigation, identification, detection, reconnaissance, special purpose equipment; operates warfare equipment.	High degree of aptitude for electrical and mechanical work. Algebra, trigonometry, physics, electricity, radio and mechanics.	Aircraft electrician, radio mechanic, electronics technician, radar repairman/technician, TV repairer.
Aviation Machinist's Mate	Inspects, maintains power plants and related systems and equipment, prepares aircraft for flight, conducts periodic aircraft inspections.	Good learning ability and mechanical aptitude. Machine shop, automobile or aircraft engine work, algebra and geometry.	Airport service person, aircraft engine test mechanic, small appliance repairer, mechanic, machinist, flight engineer.

Career Fields	Duties & Responsibilities	Qualifications	Examples of Civilian Jobs
Aviation Survivalman	Maintains and packs parachutes, survival equipment, flight and protective clothing, life jackets; tests and services pressure suits. Cares for search and rescue equipment, pyrotechnics and station small arms.	Must perform extremely careful and accurate work. General shop and math, sewing desirable. Experience in use and repair of sewing machines.	Parachute packer, inspector, repairer and tester; sailmaker, ammunition foreman, rescue gear specialist.
Aviation Structural Mechanic	Maintains and repairs aircraft, airframe, structural components, hydraulic controls, utility systems, egress systems.	High degree of mechanical aptitude. Metal shop, woodworking, algebra, plane geometry, physics; experience in automobile body work.	Welder, sheet metal repairer, hydraulics technician, aircraft repairer.
Boatswain's Mate	Performs seamanship tasks, operates small boats, stores cargo, handles ropes and lines, directs work or deck force personnel.	Must be physically strong. Practical math desirable; algebra, geometry and physics.	Motorboat operator, pier superintendent, able seaman, canvas worker, rigger, cargo wincher, mate, longshore worker, marina operator, heavy equipment operator.
Damage Controlman	Fabricates, installs, repairs shipboard structures, plumbing and piping systems; uses damage control in fire fighting, and nuclear, biological, chemical and radiological defense equipment. Construction work. Maintains power and lighting equipment generators, motors, power distribution systems, other electrical equipment; rebuilds electrical equipment.	High mechanical aptitude. Sheet metal, foundry, pipefitting, carpentry, mathematics, geometry and chemistry valuable.	Fire fighter, welder, plumber, shipfitter, blacksmith, metallurgical technician, carpenter.
Electrician's Mate	Maintains power and lighting equipment generators, motors, power distribution systems, other electrical equipment; rebuilds electrical equipment.	Aptitude for electrical and mechanical work. Electrical, practical and shop mathematics, and physics.	Electrician, electric motor and electrical equipment repairer, armature winder, radio/TV repairer.
Electronics Technician	Maintains all electronic equipment used for communications, detection ranging, recognition and counter-measures, worldwide navigation systems, computers and sonar.	Aptitude for detailed mechanical work. Radio, electricity, physics, algebra, trigonometry and shop valuable.	Electronics technician, radar and radio repairer, instrument and electronics mechanic, telephone repairman.
Fire Control Technician	Operates, tests, maintains and repairs weapons control systems and telemetering equipment used to compute accuracy of naval guns and missiles.	Perform fine, detailed work. Extensive training in mathematics, electronics, electricity and mechanics.	Radar or electronics technician, test range tracker, instrument repairer, electrician.
Gunner's Mate	Operates and performs maintenance on guided-missile launching systems, rocket launchers, guns, gun mounts; inspects/repairs electrical, electronic, pneumatic, mechanical and hydraulic systems.	Prolonged attention and mental alertness, ability to perform detailed work. High aptitude for electrical and mechanical work. Arithmetic, shop math, electricity, electronics, physics, machine shop, welding, mechanical drawing.	Gunsmith, locksmith, machinist, instrument repairer, hydraulics, pneumatic or mechanical technician, small appliance or test equipment repairer.
Health Services	Administers medicines, applies first aid, assists in operating room, nurses sick and injured, and assists dental officers.	Hygiene, biology, first aid, physiology, chemistry, typing and public speaking.	Practical nurse, medical, dental, or X-ray lab technician, pharmacist, emergency medical technician.
Machinery Technician	Operates, maintains and repairs ship's propulsion, auxiliary equipment and outside equipment such as steering, engine, refrigeration/air conditioning, steam equipment.	Aptitude for mechanical work. Practical or shop mathematics, machine shop, electricity and physics valuable.	Boiler house repairer, engine maintenance, machinist, marine engineer, turbine operator, engine repairer, air conditioning and refrigeration repairer.

Career Fields	Duties & Responsibilities	Qualifications	Examples of Civilian Jobs
Marine Science Technician	Makes visual/instrumental weather and oceanographic observation; conducts chemical analysis; enters data on appropriate logs, charts, and forms; analyzes/interprets weather and sea conditions. Reports, edits, copyreads news; publishes information about service people and activities through newspapers, magazines, radio and television, shoots and develops film and photographs.	Ability to use numbers in practical problems. Algebra, geometry, trigonometry, physics, physiography, chemistry, typing, meteorology, astronomy and oceanography useful. High degree of clerical aptitude. English, journalism, typing and writing experience helpful.	Oceanographic technician, weather observer, meteorologist, chart maker, statistical clerk and inspector of weather and oceanographic instruments.
Public Affairs Specialist	Reports, edits, copyreads news; publishes information about service people and activities through newspapers, magazines, radio and television, shoots and develops film and photographs.	Good vision and hearing and ability to express oneself clearly in writing and speaking. Public speaking, grammar, geometry and physics helpful.	News editor, copyreader, script writer, reporter, free lance writer, rewrite or art layout person, producer, public relations, advertising, photographer.
Quartermaster	Performs navigation of ships, steering, lookout supervision, ship-control, bridge watch duties, visual communication and maintenance of navigational aids.	Prolonged attention and mental alertness. Physics, mathematics and ship courses in radio and electricity helpful. Experience in radio repair is valuable.	Barge, motorboat, yacht captain, quartermaster, harbor pilot aboard merchant ships, navigator, chart maker.
Radarman	Operates surveillance and search radar, electronic recognition and identification equipment, controlled approach devices and electronic aids to navigation; serves as plotter and status board keeper.	Good hearing and manual dexterity. Mathematics, physics and electricity desirable. Experience as amateur radio operator helpful.	Radio operator (aircraft, ship, government service, radio broadcasting), radar equipment supervisor, and control tower operator, air traffic controller.
Radioman	Operates communication, transmission, reception, and terminal equipment; transmits, receives and processes all forms of military record and voice communications.	Normal hearing and clear speaking voice. Algebra, geometry, physics, electricity and shopwork desirable. Experience as amateur radio operator.	Telegrapher, radio dispatcher, radio/telephone operator, computer operator.
Sonar Technician	Operates electronic underwater detection and attack apparatus, obtains and interprets information for tactical purposes, maintains and repairs electronic underwater sound detection equipment.	Typing, bookkeeping, accounting, commercial math, general business studies and English helpful. Experience or courses in food preparation, dietetics, and record keeping helpful.	Oil well sounding device operator, radio operator, inspector of electronic assemblies, electronics technician, electrical repairer.
Storekeeper	Orders, receives, stores, inventories and issues clothing, foodstuffs, mechanical equipment and other items, payroll clerk. Cooks and bakes, prepares menus, keeps cost accounts, assists in ordering provisions, inspects foodstuffs.	Aptitude for electrical and mechanical work, use of numbers in practical problems. Previous electrical experience helpful.	Sales or shipping clerk, warehouse worker, buyer, invoice control clerk, purchasing agent, accountant.
Subsistence Specialist	Cooks and bakes, prepares menus, keeps cost accounts, assists in ordering provisions, inspects foodstuffs.	Same qualifications required of secretaries and typists in private industry; English, business subjects, stenography and typewriting helpful.	Cook, pastry chef, steward, butcher, chef, restaurant manager.
Telephone Technician	Installs, operates, maintains and repairs all telephone, telegraph and teletype equipment, switchboards, public address systems and inter-office communications systems.		Electrician, electrical equipment inspector and many jobs which are in the civilian field of telephonic communications.
Yeoman	Clerical and secretarial, typing, filing, operating office and duplicating equipment, preparing and routing correspondence and reports, maintains personnel records and official publications.		Office manager, secretary, general office clerk, administrative assistant, legal clerk, personnel manager, court reporter.

Insignia of the United States Armed Forces

ENLISTED

E-1 E-2 E-3 E-4 E-5 E-6 E-7 E-8 E-9

NAVY

									
SEAMAN RECRUIT	SEAMAN APPRENTICE	SEAMAN	PETTY OFFICER THIRD CLASS	PETTY OFFICER SECOND CLASS	PETTY OFFICER FIRST CLASS	CHIEF PETTY OFFICER	SENIOR CHIEF PETTY OFFICER	MASTER CHIEF PETTY OFFICER	MASTER CHIEF PETTY OFFICER OF THE NAVY

MARINES

(no insignia) PRIVATE									
	PRIVATE FIRST CLASS	LANCE CORPORAL	CORPORAL	SERGEANT	STAFF SERGEANT	GUNNERY SERGEANT	FIRST SERGEANT	SERGEANT MAJOR	SERGEANT MAJOR OF THE MARINE CORPS
									
							MASTER SERGEANT	MASTER GUNNERY SERGEANT	

ARMY

(no insignia) PRIVATE									
	PRIVATE	PRIVATE FIRST CLASS	CORPORAL	SERGEANT	STAFF SERGEANT	SERGEANT FIRST CLASS	FIRST SERGEANT	COMMAND SERGEANT MAJOR	
									SERGEANT MAJOR OF THE ARMY
			SPECIALIST 4				MASTER SERGEANT	SERGEANT MAJOR	

AIR FORCE

(no insignia) AIRMAN BASIC									
	AIRMAN	AIRMAN FIRST CLASS	SERGEANT SENIOR AIRMAN	STAFF SERGEANT	TECHNICAL SERGEANT	MASTER SERGEANT	SENIOR MASTER SERGEANT	CHIEF MASTER SERGEANT	CHIEF MASTER SERGEANT OF THE AIR FORCE

Chart by Phyllis Cox and John Pack

Insignia of the United States Armed Forces

OFFICERS

O-1 O-2 O-3 O-4 O-5 O-6 O-7 O-8 O-9 O-10 SPECIAL

NAVY

ENSIGN	LIEUTENANT JUNIOR GRADE	LIEUTENANT	LIEUTENANT COMMANDER	COMMANDER	CAPTAIN	REAR ADMIRAL (LOWER HALF)	REAR ADMIRAL	VICE ADMIRAL	ADMIRAL	FLEET ADMIRAL

MARINES

SECOND LIEUTENANT	FIRST LIEUTENANT	CAPTAIN	MAJOR	LIEUTENANT COLONEL	COLONEL	BRIGADIER GENERAL	MAJOR GENERAL	LIEUTENANT GENERAL	GENERAL	

ARMY

SECOND LIEUTENANT	FIRST LIEUTENANT	CAPTAIN	MAJOR	LIEUTENANT COLONEL	COLONEL	BRIGADIER GENERAL	MAJOR GENERAL	LIEUTENANT GENERAL	GENERAL	GENERAL OF THE ARMY

AIR FORCE

SECOND LIEUTENANT	FIRST LIEUTENANT	CAPTAIN	MAJOR	LIEUTENANT COLONEL	COLONEL	BRIGADIER GENERAL	MAJOR GENERAL	LIEUTENANT GENERAL	GENERAL	GENERAL OF THE AIR FORCE

WARRANT

NAVY

MARINES

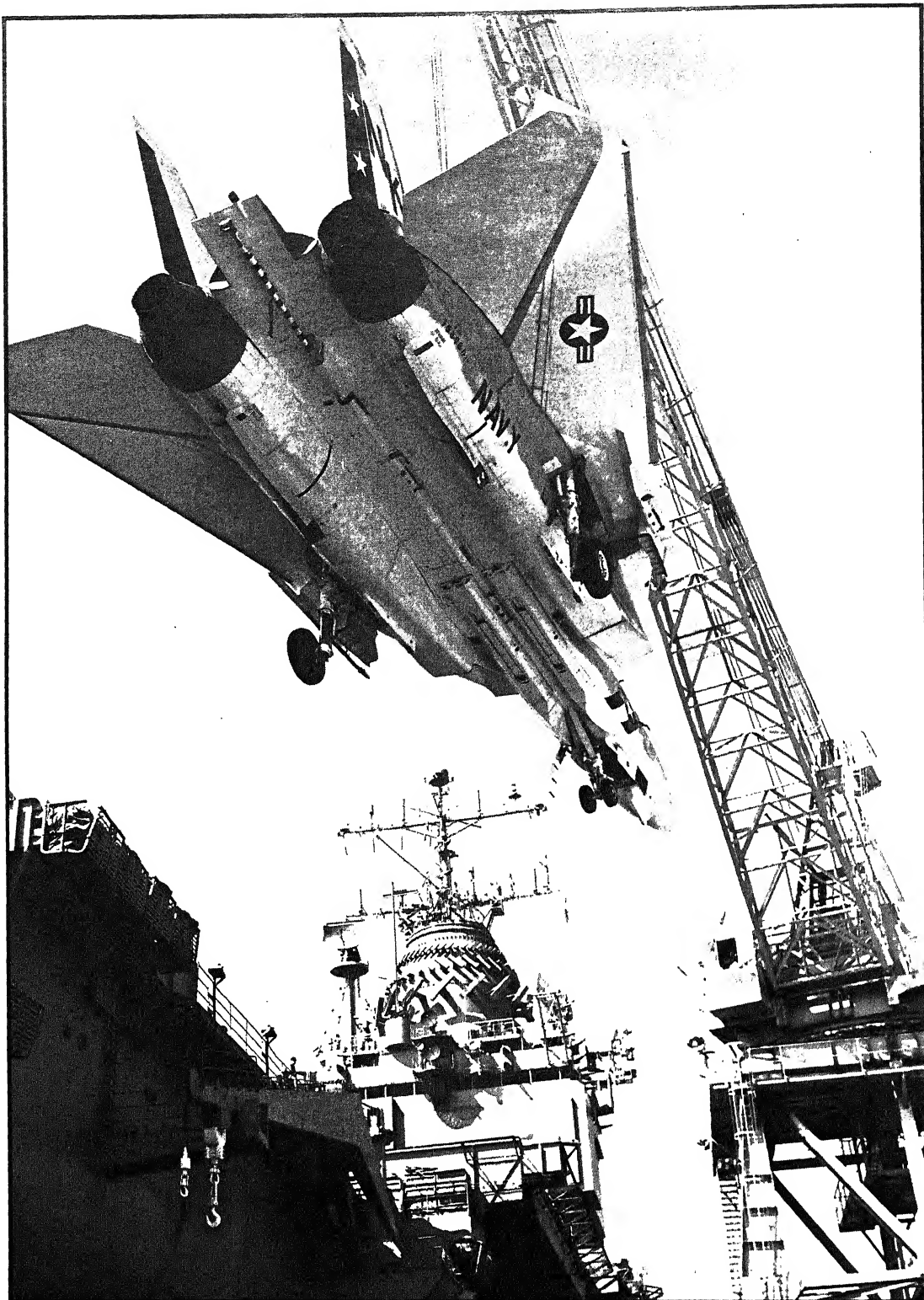
ARMY

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COAST GUARD



Coast Guard enlisted rating badges are the same as the Navy's for grades E-1 through E-6. E-7s through E-9s have silver specialty marks, eagles and stars, and gold chevrons. The badge of the Master Chief Petty Officer of the Coast Guard has a gold chevron and specialty mark, a silver eagle and gold stars. Coast Guard officers use the same rank insignia as Navy officers. For all ranks, the gold Coast Guard shield on the uniform sleeve replaces the Navy star.



Preparedness is the key to success and victory.
General Douglas MacArthur

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